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An Assessment of the Supplies of Natural Gas and Fuels for Generating Electricity in Ohio From July 1981 - June 1982

Presented to

Governor James A. Rhodes

Ohio Legislature

Public Utilities Commission of Ohio

August 17, 1981

Ohio Department of Energy

Robert C. Masoner, Director

BEST AVAILABLE COPY

James A. Rhodes
GOVERNOR

OHIO DEPARTMENT OF ENERGY
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Robert C. Masoner
DIRECTOR

August 17, 1981

The Honorable James A. Rhodes
Governor
Statehouse
Columbus, Ohio 43215

Dear Governor Rhodes:

Pursuant to ORC 4905:14, each public electric and gas utility in Ohio is required to file a report twice a year with the Ohio Department of Energy. This report is due on July 1 and November 1, and is to contain projections of the utility's total demand and fuel supply over the following twelve months. As required by the same statute, we sent to you on July 10, 1981, one copy of the utilities' reports.

The attached report is a summary and analysis of these reports as required by 4905:14. It includes an evaluation of the Ohio gas and electric situation for the coming winter and the next twelve months. It appears at this time that fuel supplies will be adequate. We will provide a further appraisal when the November reports are filed.

Sincerely,

Robert C. Masoner

Robert C. Masoner
Director

RCM/ot
Enclosure:

cc: James R. Tilling, Senate Clerk
Richard C. Murray, Clerk of the House
Jon F. Kelly, PUCO Chairman

An Assessment of the Supplies of Natural Gas
and Fuels for Generating Electricity in Ohio
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AN ASSESSMENT OF THE SUPPLIES OF NATURAL GAS AND FUELS FOR GENERATING ELECTRICITY IN OHIO

SUMMARY

Section 4905 of the Ohio Revised Code requires than on July 1 and November 1 of each year Ohio's natural gas and electric utilities report forecasts of their projected fuel supply and demand for the ensuing twelve-month period. The statute further requires that the Ohio Department of Energy (ODOE) review each report and compare it to the Department's independently generated forecasts. This report represents ODOE's assessment of these individual forecasts and provides an aggregate forecast of Ohio's natural gas and electricity supply/demand outlook for the period July 1, 1981 through June 1, 1982.

Electricity

For the twelve month period ending in May 1981, consumption of electricity in Ohio was 0.1 percent lower than during the previous twelve month period. The decline is due to a 4.3 percent decrease in demand by the industrial sector. On the other hand, the residential sector and commercial sector demand increased by 4.2 and 4.4 percent respectively over the previous twelve month period. Ohio Department of Energy forecasts for the twelve month period ending June 1982 indicate that residential sector consumption will remain stable. Commercial sector consumption is forecast to increase by 2.6 percent; and industrial sector consumption is forecast to increase 1.5 percent.

The projected supply of coal and oil is adequate under normal circumstances.

Natural Gas

Following the passage of the Natural Gas Policy Act of 1978, new customer hookup bans were lifted from all Ohio utilities by the end of 1979. However, natural gas utilization levels in residential, commercial, and industrial sectors declined in 1980, relative to 1979. The only sector where natural gas utilization established a consistent upward trend from 1978 on is the electric utilities sector, which accounts for less than 1.1 percent of the total natural gas utilization in Ohio.

The experience of the past two years clearly indicates that declining levels of natural gas utilization in Ohio are no longer due to curtailments of customer base allocations to apportion inadequate supplies. The four-fold increase in the price of natural gas between 1972 and 1980, as indicated in Table 19, and the eight-fold increase in the price of imported crude oil during the same period of time, have expanded the share demanded by energy expenditures in the budget and balance sheets of U.S. households and industry. This increase has been of such magnitude that the maintenance of a minimal customary level of discretionary expenditures on nonenergy items had required consumers to make continuing reductions in absolute levels of energy consumption. In other words, energy consumers are simply being priced out of the market, or, at least, out of their more costly habits. This is exactly what theory suggests will happen as the price mechanism undertakes the process of allocating a scarce resource.

However, in actual practice, there is always a question of information and implementation costs, and a consequent problem of public welfare, involved under these circumstances. It is not clear that the

customers who are being forced to reduce their energy consumption levels will be able to do so through the adoption of the most efficient and effective measures that could be available and feasible for them. This is the case because the information, training, or costs involved may exceed consumers' capabilities. The provision of conservation services, information, or programs by a single public authority can, however, improve public welfare, and expedite greater conservation, at a net gain to consumers who would be the beneficiaries of such services.

As long as energy prices outstrip the growth in real per capita income, there is reason to believe that energy consumption in general, and natural gas consumption in particular, will not exhibit sustained upward trends similar to those observed in the sixties. Significant fluctuations in sectoral natural gas consumption levels may be expected in response to severe climatic conditions, or in response to fluctuations in the general unemployment levels in Ohio.

For 1982, we expect that industrial requirements will not significantly increase above their current levels.

Projected natural gas supplies for 1982 should be sufficient even in the case of a 10 percent colder than normal winter.

INTRODUCTION

This report has been prepared by the Ohio Department of Energy pursuant to Section 4905.14 (E) of the Ohio Revised Code. The statute requires the Department of Energy to provide a summary, analysis and recommendations based on the Ohio public utilities' energy supply and demand projections for the twelve-month period beginning July 1, 1981. In accordance with Section 4905.14 (D), a copy of each utility's November forecast was submitted to the Governor, Clerk of the Senate, the Legislative Clerk of the House of Representatives, and the Public Utilities Commission of Ohio on July 10, 1981. The utilities' forecasts and historical data are the primary input for this report. Several other sources of information have also been used, including historical energy data developed by the Ohio Department of Energy, federal energy reports, and publications from the American Gas Association and the Electric Power Research Institute. A substantial and successful effort has been undertaken to develop a comprehensive data base and at the same time maintain the ability to provide timely analyses and forecasts.

Objectives

In the preparation of this report, the Ohio Department of Energy set forth the following major objectives:

1. To provide an adequate historical, energy-related data profile for identification of current status and future trends;
2. To provide analysis and interpretation of changes in energy supply and demand;
3. To provide an independent assessment of the adequacy of natural gas and electric energy supply for the upcoming twelve months; and

4. If a potential deficiency between supply and demand is identified, to suggest a strategy for implementation in order to prevent or mitigate any interruption or curtailment of service.

The basis for the information to be evaluated is supplied in part by the reports filed with the Ohio Department of Energy, federal reports, and the research and analysis of the Ohio Department of Energy.

Temperature and Energy Consumption

Changes in the observed annual energy requirements of the three major consuming sectors may be explained by a variety of factors. Temperature is a variable which explains much of the observed variation. It is particularly significant in the residential and commercial sectors where, during summer and winter periods, the requirements for electricity and natural gas are used to maintain comfortable room temperatures.

Two indicators which measure temperature-sensitive energy requirements are heating degree days and cooling degree days. The daily mean temperature is obtained by adding together the maximum and minimum temperatures reported for the day and dividing the total by two. When the daily mean temperature is 65^{0} F, the degree day is zero. Each degree of mean temperature below 65^{0} F is counted as one heating degree day. This indicator is convenient because the amount of heat required to maintain a certain temperature level is proportional to heating degree days.

The cooling degree days are defined similarly: each degree of mean temperature above 65^{0} F is counted as one cooling degree day. If the daily mean temperature is 65^{0} F or lower, the cooling degree day total is zero.

Since most homes and commercial buildings in Ohio are heated by natural gas, the reporting gas utilities are required to submit supply and demand forecasts under a normal winter scenario and a ten percent colder than normal winter scenario. In addition, the relationship between natural gas consumption and heating degree days is closely monitored by ODOE during the winter heating season (from November through March). Table 1 and Figure 1 show, for the past two heating seasons, population-weighted state heating degree day summaries. In addition, a normal heating degree day series, defined as the 30 year average of the years 1941 to 1970, is presented.

Rules and Requirements for This Report

The administrative rules and forecasting requirements (OAC 1551:1-4 and 1551:1-5) became effective November 1, 1978. The present forecasting reports submitted by electric and gas utilities are in accordance with these rules.

It is necessary to differentiate between state energy consumption and production totals and the reporting utilities' totals. This is because the municipal utilities, industrial facilities and the rural electric cooperatives are not required to file the semi-annual report. This difference is actually very small (estimated to be about 6 percent for the electricity figures and 1.7 percent for natural gas (excluding self-help gas).

Ohio Department of Energy Forecasts

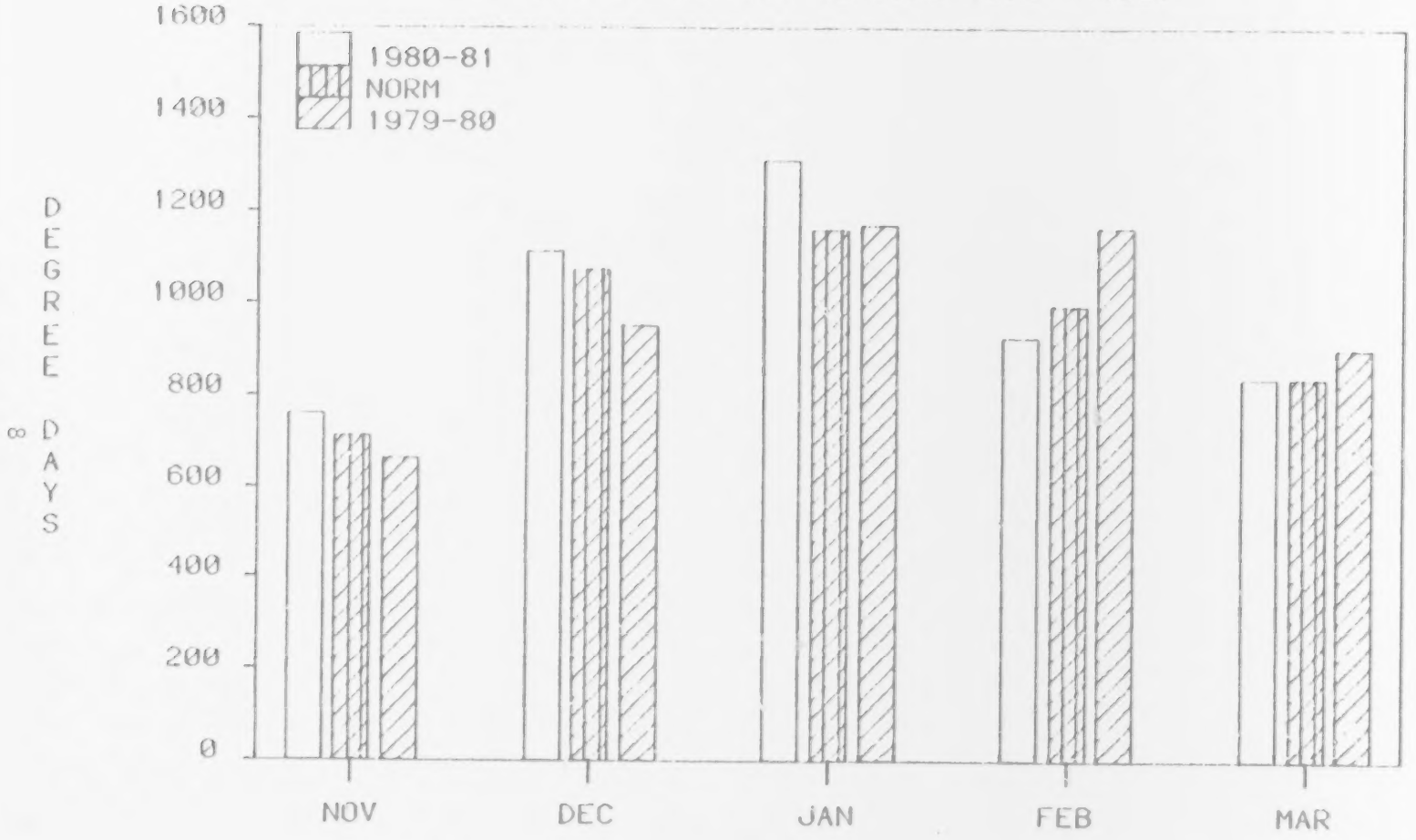
As part of its analysis, the Ohio Department of Energy makes independent forecasts to serve as validation checks. Early identification of severe conditions permits advanced planning to avert possible undesirable consequences.

Table 1. Population-Weighted State Degree-Day Summary for Ohio
November 1, 1980 to March 31, 1981

Week Ending Date	1980-81			Norm			1979-80		
	Weekly	Cum. for Month	Cum. from Nov. 1	Weekly	Cum. for Month	Cum. from Nov. 1	Weekly	Cum. for Month	Cum. from Nov. 1
Nov. 2	52	52	52	33	33	33	30	30	30
9	110	162	162	138	171	171	160	190	190
16	117	339	339	159	330	330	193	383	383
23	214	553	553	180	510	510	90	473	473
30	208	761	761	201	711	711	189	662	662
Deviation from Norm		7.0%	7.0%					-6.9%	-6.9%
Dec. 7	163	163	924	221	221	932	217	217	879
14	210	373	1134	237	458	1169	195	412	1074
21	296	669	1430	248	706	1417	238	650	1312
28	313	982	1743	256	962	1673	190	840	1502
31	127	1109	1870	111	1073	1784	109	949	1611
Deviation from Norm		3.4%	4.8%					-11.6%	-9.7%
Jan. 4	170	170	2040	149	149	1933	145	145	1756
11	384	554	2424	261	410	2194	266	411	2022
18	310	864	2734	263	673	2457	206	617	2228
25	232	1096	2966	261	934	2718	264	881	2492
31	216	1312	3182	224	1158	2942	290	1171	2782
Deviation from Norm		13.3%	8.2%					1.1%	-5.4%
Feb. 1	36	36	3218	37	37	2979	48	48	2830
8	324	360	3578	258	295	3274	336	384	3214
15	281	641	3859	254	549	3528	292	676	3506
22	128	769	3987	246	795	3774	246	922	3752
28	156	925	4143	201	996	3975	245	1167	4007
Deviation from Norm		-7.1%	4.2%					14.7%	0.8%
Mar. 1	26	26	4169	33	33	4008	41	41	4048
8	238	264	4407	218	251	4226	262	303	4310
15	190	454	4597	201	452	4427	227	530	4840
22	240	694	4837	183	635	4610	156	686	4996
29	129	823	4966	162	797	4772	174	860	5170
31	15	838	4981	40	837	4812	40	900	5210
Deviation from Norm		0.1%	3.5%					7.0%	7.6%

Source: National Weather Service, Port Columbus, and the Ohio Department of Energy.

FIGURE 1. POPULATION-WEIGHTED STATE DEGREE-DAYS FOR OHIO
WINTER HEATING SEASONS 1979 - 1981



SOURCE: OHIO DEPARTMENT OF ENERGY

The Ohio Department of Energy has the capability to forecast monthly demand by utility and for the state as a whole within a reasonable level of error (less than 5 percent in most cases). Such forecasts are based on historical month-by-month actual consumption for both electricity and natural gas and other appropriate variables such as population, income, and temperature data. As in any forecast, certain important socioeconomic conditions are assumed in the Ohio Department of Energy forecasts.

These assumptions are stated below:

1. Energy demand generally follows its historical consumption pattern.
2. Socio-economic changes are minimal in affecting demand for energy in the short run.
3. The observed level of conservation will remain in effect.
4. Other specific assumptions are stated where appropriate.

Overview of This Report

The rest of the report is divided into two parts: electric energy and natural gas. Materials contained in these two parts are, for the most part, parallel in arrangement. They contain: (a) a profile of reporting utilities; (b) historic sources of supplies/suppliers; (c) consumption history by sector, utility, and state; and (d) the utilities' forecasts and independent forecast by the Ohio Department of Energy. For the purpose of better illustration, the data are frequently displayed graphically.

ELECTRICITY

This section is based on the July forecasts filed by nine major Ohio electric utilities. For purposes of this report, and for the reasons described below, the nine utilities have been divided into five groups. These are:

1. Former CCD
   - Cincinnati Gas and Electric (CG&E)
   - Columbus and Southern Ohio Electric (C&SOE)
   - Dayton Power and Light (DP&L)
2. Former CAPCO
   - Cleveland Electric Illuminating (CEI)
   - Ohio Edison (and its subsidiary Pennsylvania Power)
   - Toledo Edison
   - Duquesne Light (not subject to reporting)
3. American Electric Power Company (AEP)
   - Ohio Power Company
   - Other out-of-state utilities not subject to reporting
4. Allegheny Power System (APS)
   - Monongahela Power
   - Other out-of-state utilities not subject to reporting
5. Ohio Valley Electric Corporation (OVEC)

Although the CCD group no longer includes the Columbus and Southern Electric Company, acquired during the past year by the American Electric Power Corporation, the three utilities which formerly comprised the group own many power generation units in common. For this reason they are presented together under the old grouping. The same can be said of the CAPCO grouping: although it no longer operates as an entity, the utilities comprising the group share ownership of power generation units.

The electric energy from such units is distributed to the utilities according to ownership share percentages. Thus, in making an electricity fuel assessment, it is important to review both individual utilities' levels of supply and group fuel supply levels.

Groups 3 and 4 are holding companies of many utilities. Each group has a centralized power generation and distribution center that coordinates generation for the entire system. Emphasis has therefore been placed on fuel assessment for the entire system. For the American Electric Power Company, however, this report does not include data for the Columbus and Southern Electric Company. It is anticipated that a revision of the computer program which generates fuel assessment and inventory projections will be completed by the time of the December 15 report. The revision will reflect the incorporation of the Columbus and Southern Ohio Electric Company into the American Electric Power Company.

Group 5 is a single purpose utility: its main function is to supply power for the uranium enrichment plant at Portsmouth. It also sells surplus generation to many publicly owned utilities.

Source/Supplier of Fuel for Electric Generation

Fuels used in Ohio for electric generation include coal, oil, natural gas and nuclear fuel. At this time, nuclear fuel is not monitored by ODOE; all other fuels are monitored through the utilities' monthly reports. Tables 2 and 3 list coal and oil deliveries to power plants located in Ohio. The main sources of supply and/or suppliers of these fuels remain the same as in the last reporting period.

Coal deliveries to Ohio electric plants during the 1980-1981 heating season (November through March) declined 2.6 percent from the previous heating season, while deliveries of oil declined 38.7 percent.

Table 2. Source of Coal Supply to Electric Utilities
(Ohio Portion)
(In Thousand Short Tons)

Month	Coal Districts 1	2	3	4	6	7&8	9	Other	Total
1979									
January	----	176.9	45.2	2,296.6	241.5	1,026.7	129.6	392.0	4,308.5
February	5.7	103.4	52.7	2,124.4	237.9	901.7	124.5	285.6	3,835.9
March	0.5	158.0	60.4	2,516.0	313.8	1,172.8	149.4	218.7	4,609.6
April	32.6	141.3	76.7	2,207.3	276.0	1,405.5	107.7	334.0	4,453.1
May	1.0	106.8	75.4	2,425.0	358.0	1,340.1	143.2	371.0	4,822.5
June	10.2	120.7	83.1	2,369.5	356.3	1,336.7	135.8	388.8	4,801.1
July	6.5	105.7	62.6	1,874.7	178.7	785.2	134.6	425.0	3,573.0
August	6.5	81.2	68.0	2,469.7	295.3	1,242.4	196.2	333.5	4,692.8
September	1.0	148.1	75.5	2,229.4	285.5	1,171.9	92.0	309.8	4,313.2
October	1.0	100.1	63.2	2,387.9	484.5	1,228.1	112.6	296.6	4,669.0
November	0.5	162.4	25.4	2,263.8	286.4	1,398.2	128.4	251.1	4,516.2
December	----	158.9	17.6	2,099.3	289.9	1,370.7	120.7	29.5	4,086.6
Total	67.5	1,565.5	705.8	27,256.6	3,603.8	14,380.0	1,574.7	3,648.6	52,804.5
% of Total	0.1	3.0	1.3	51.6	6.8	27.2	3.0	6.9	
1980									
January	----	210.9	27.0	2,202.8	327.2	1,140.8	131.5	316.8	4,357.0
February	----	136.3	46.9	1,872.3	500.9	964.9	100.1	216.8	3,838.2
March	----	200.4	34.8	2,114.1	326.9	1,485.5	94.6	356.6	4,612.9
April	----	254.1	44.7	2,096.0	215.9	1,216.8	66.1	200.8	4,094.4
May	0.1	165.1	49.0	2,225.2	270.1	1,252.5	125.4	167.8	4,255.2
June	----	158.4	56.5	2,111.3	291.9	1,501.7	159.0	165.4	4,444.2
July	----	151.3	47.1	1,932.9	173.1	892.3	72.8	201.3	3,470.8
August	----	182.6	78.8	2,164.6	261.6	1,295.8	115.1	242.1	4,340.6
September	----	237.5	78.7	2,124.4	275.2	1,206.4	81.5	118.3	4,182.0
October	----	202.1	95.1	2,164.6	265.1	1,388.9	103.4	56.1	4,275.3
November	----	161.5	107.6	1,958.0	261.1	1,094.6	38.8	155.8	3,777.4
December	----	232.4	103.7	2,070.7	233.1	1,130.3	73.3	251.9	4,075.4
Total	0.1	2,252.6	769.9	25,036.9	3,202.1	14,650.5	1,161.6	2,449.4	49,523.4
% of Total	0.0	4.5	1.6	50.6	6.5	29.6	2.3	4.9	
1981									
January	----	137.9	82.7	2,241.6	270.6	1,269.2	106.7	319.4	4,428.1
February	----	178.5	91.2	2,063.3	242.3	1,120.4	37.7	196.4	3,929.8
March	----	193.2	137.2	2,333.0	125.5	1,304.2	19.1	342.1	4,444.5

District

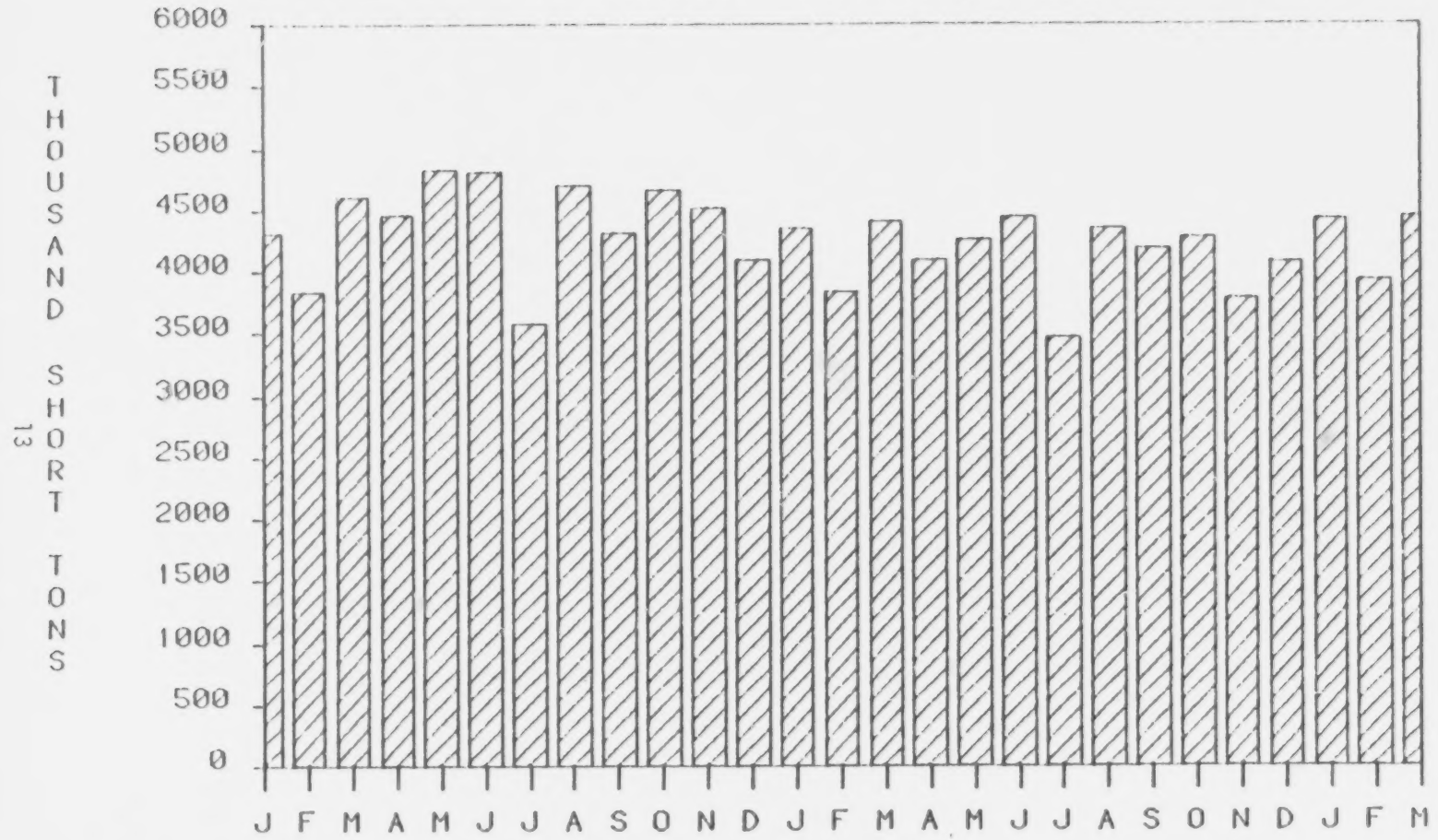
1. Eastern Pennsylvania
2. Western Pennsylvania
3. Northern West Virginia
4. Ohio
6. Panhandle in West Virginia
7. Southern No. 1 (in West Virginia and Virginia)
8. Southern No. 2 (in West Virginia, Virginia and Eastern Kentucky)
9. Western Kentucky

Other - Primarily from Wyoming and Utah

(for details, see Keystone Coal Industry Manual, 1977 by McGraw-Hill).

Source: Ohio Electric Utilities' FPC Form 423 and the Ohio Department of Energy.

FIGURE 2. MONTHLY COAL DELIVERIES TO POWER PLANTS IN OHIO
(JANUARY 1979 - MARCH 1981)



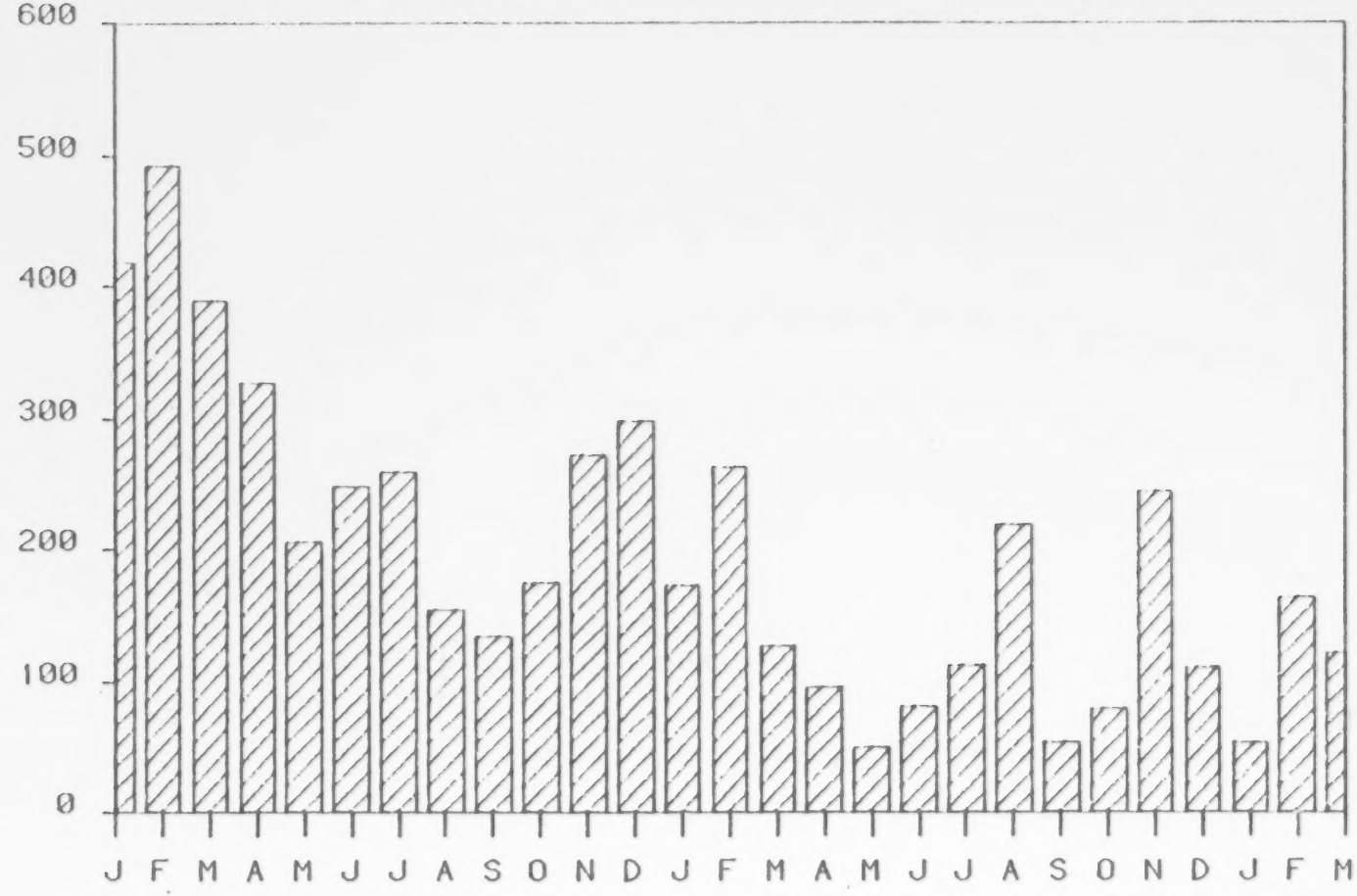
SOURCE: OHIO DEPARTMENT OF ENERGY

Table 3. Major Oil Suppliers to Electric Utilities
(Ohio Portion)
(Thousand Barrels)

1979	Allied	Marathon	McCarty	Standard	Union	Other	Total
January	342.3	4.1	0.6	27.1	14.5	29.1	417.7
February	357.6	3.2	12.5	41.2	19.5	56.2	491.2
March	346.1	1.5	4.6	23.3	12.3	1.6	389.4
April	289.9	0.8	--	13.1	2.6	20.6	327.1
May	172.5	1.5	--	18.0	1.6	12.8	206.4
June	206.8	0.4	--	22.5	2.8	16.5	249.0
July	236.8	0.2	--	16.6	4.4	0.5	258.5
August	120.6	0.4	--	31.8	2.6	--	155.4
September	102.7	0.4	--	29.4	2.4	--	134.9
October	126.3	9.4	--	30.3	6.1	2.7	174.8
November	216.9	1.3	--	34.4	1.9	17.3	271.8
December	242.1	0.5	--	46.4	4.8	2.8	296.6
Total	2,760.6	23.7	17.7	334.1	75.6	161.1	3,372.8
% of Total	81.8	0.7	0.5	9.9	2.2	4.8	
1980							
January	105.0	0.2	--	49.9	4.2	14.9	174.2
February	214.0	0.2	--	44.4	4.2	--	262.8
March	73.9	0.4	--	49.9	3.3	0.1	127.6
April	77.4	0.2	--	14.0	4.7	0.7	97.0
May	40.0	0.2	--	5.1	4.5	1.1	50.9
June	40.5	--	--	35.1	4.7	1.0	81.3
July	71.8	--	--	34.4	4.4	1.2	111.8
August	111.2	42.9	--	45.4	3.5	15.5	218.5
September	39.5	3.8	--	6.4	3.8	0.4	53.9
October	60.9	2.2	--	9.4	4.9	1.7	79.1
November	173.6	0.4	--	21.6	2.3	46.4	244.3
December	94.6	0.6	--	3.4	2.3	10.1	111.0
Total	1,102.4	51.1	--	319.0	46.8	92.2	1,612.4
% of Total	68.4	3.2		19.8	2.9	5.7	
1981							
January	32.6	1.0	--	0.7	3.6	16.0	53.9
February	141.8	--	--	4.0	2.6	15.6	164.0
March	93.8	0.2	--	4.5	4.9	17.9	121.3

Source: Ohio Electric Utilities' FPC Form 423 and the Ohio Department of Energy.

FIGURE 3. MONTHLY OIL DELIVERIES TO POWER PLANTS IN OHIO
(JANUARY 1979 - MARCH 1981)



SOURCE: OHIO DEPARTMENT OF ENERGY

Electric Generation by Type of Fuel

Coal is the main source of fuel for electric generation in Ohio, and its position is not expected to change in the foreseeable future. In 1980, 97 percent of total electricity generated in Ohio was from coal, an increase of 1 percent over a year ago; oil-generated electricity accounted for 1 percent, as it did in 1979; and nuclear-generated electricity accounted for 2 percent, a decrease of 1 percent from 1979. The amount of electricity generated from natural gas is very small compared to total generation. A boost in nuclear power generation in Ohio is expected in 1982, when the Zimmer facility is scheduled to come on line.

Table 4 and Figure 4 show the combined monthly totals of the reporting utilities' net generation from Ohio plants. Historical power plant fuel consumption and fuel stocks are displayed in Table 5. The build up and subsequent decline in coal stocks from mid 1980 through May 1981 was occasioned by a coal strike settled in June 1981.

Historical Patterns of Ohio Electric Consumption

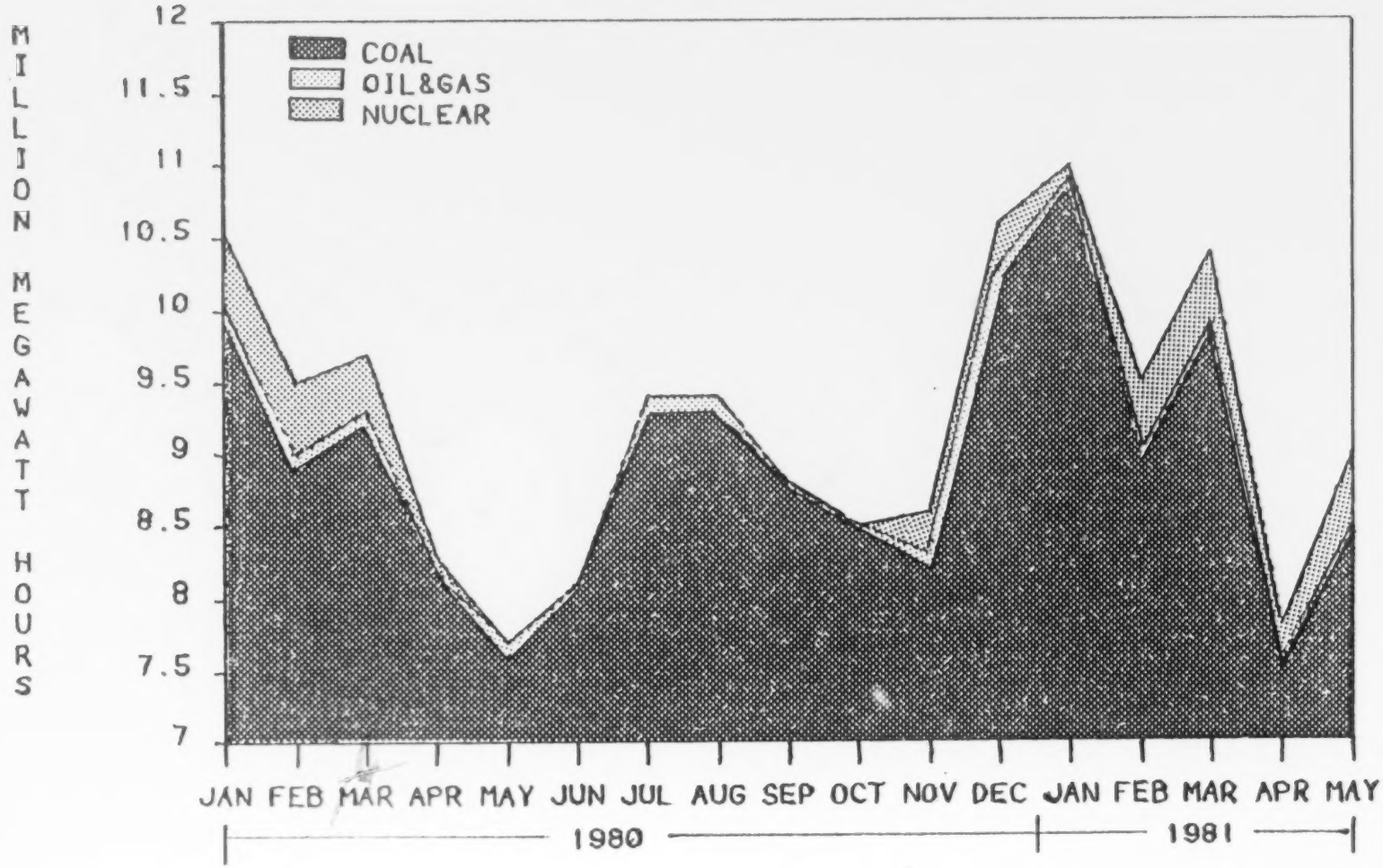
Since the 1973 OPEC oil embargo and with the escalation of energy prices, the pattern of electricity consumption in Ohio has changed dramatically. Increasing prices have stimulated conservation activities and fostered economic conditions that have resulted in reduced growth rates in the demand for electricity. For the twelve month period ending in May 1981, total electricity consumption in the state was 0.1 percent lower than during the same period one year ago (see Table 6 and Figure 5). The decline is attributable to declining demand in the industrial sector, where demand fell 4.3 percent from the previous year. Residential and commercial sector demand increased by 4.2 and 4.4 percent respectively, however.

Table 4. Major Ohio Utilities - Net Generation by Type of Fuel (Ohio Portion)
(Thousand MWH)

	Coal		Oil		Gas	Nuclear		Total
1979								
January	10,092	(95%)	296	(3%)	9	260	(2%)	10,656
February	9,042	(92%)	315	(3%)	10	458	(5%)	9,825
March	9,263	(93%)	167	(2%)	6	505	(5%)	9,940
April	8,965	(99%)	87	(1%)	5	0		9,057
May	9,016	(99%)	94	(1%)	8	0		9,118
June	9,205	(98%)	140	(2%)	7	0		9,352
July	9,291	(95%)	78	(1%)	8	389	(4%)	9,766
August	9,613	(93%)	57	(1%)	3	642	(6%)	10,316
September	9,126	(94%)	59	(1%)	6	478	(5%)	9,669
October	8,481	(95%)	119	(1%)	11	304	(3%)	8,915
November	8,922	(97%)	141	(2%)	20	128	(1%)	9,210
December	9,937	(99%)	93	(1%)	11	0		10,040
Total	115,864	(96%)	1,646	(1%)	104	3,164	(3%)	115,868
1980								
January	9,863	(94%)	92	(1%)	14	501	(5%)	10,472
February	8,865	(94%)	94	(1%)	13	480	(5%)	9,453
March	9,192	(95%)	81	(1%)	14	419	(4%)	9,706
April	8,204	(99%)	11	(0%)	5	99	(1%)	8,320
May	7,565	(100%)	27	(0%)	8	0		7,600
June	8,112	(100%)	27	(0%)	10	0		8,149
July	9,289	(99%)	67	(1%)	10	0		9,366
August	9,342	(99%)	101	(1%)	41	0		9,484
September	8,781	(100%)	36	(0%)	3	0		8,820
October	8,516	(100%)	29	(0%)	5	0		8,549
November	8,248	(95%)	86	(1%)	36	316	(4%)	8,687
December	10,230	(97%)	51	(0%)	78	304	(3%)	10,593
Total	106,207	(97%)	702	(1%)	237	2,119	(2%)	109,199
1981								
January	10,864	(99%)	38	(0%)	8	58	(1%)	10,968
February	9,032	(94%)	23	(0%)	7	513	(5%)	9,576
March	9,876	(95%)	31	(0%)	13	451	(4%)	10,371
April	7,646	(98%)	3	(0%)	2	160	(2%)	7,810
May	8,547	(94%)	19	(0%)	10	477	(5%)	9,054

Source: Ohio Electric Utilities' FPC Form 4 and the Ohio Department of Energy.

FIG. 4. MAJOR OHIO ELECTRIC UTILITIES NET GENERATION BY TYPE OF FUEL (OHIO PORTION)



SOURCE: OHIO DEPARTMENT OF ENERGY

Table 5. Major Ohio Electric Utilities
Fuel Consumption and Stocks
(Ohio Portion)

	Coal (Thousand Tons)		Oil (Thousand 42-Gal.Bbls)		Gas (MMCF)
1979	Burned	In Stock	Burned	In Stock	Burned
January	4,756.0	9,016.0	676.6	1,115.1	315
February	4,235.9	8,606.1	798.7	1,009.7	537
March	4,318.9	8,856.2	429.3	1,079.5	443
April	4,076.1	9,529.4	238.9	1,247.6	285
May	4,141.3	10,199.1	242.8	1,193.6	383
June	4,328.6	10,659.5	366.0	1,134.7	353
July	4,401.2	9,758.4	404.9	1,135.2	207
August	4,523.1	9,898.0	184.2	1,329.8	233
September	4,243.5	10,064.0	169.7	1,526.5	372
October	3,867.7	10,883.0	301.7	1,284.7	377
November	4,103.2	11,276.5	435.5	1,182.9	398
December	4,497.2	10,846.2	222.1	1,365.2	266
Total	51,492.0	---	4,470.4	---	4,169
Avg/Month	4,291.0	9,966.0	372.5	1,217.0	347
1980					
January	4,459.8	10,083.3	246.7	1,347.0	317
February	3,935.4	11,351.4	258.2	1,308.6	316
March	4,098.0	11,187.8	181.7	1,247.4	354
April	3.639.8	11,806.2	94.9	1,360.4	129
May	3,396.6	12,897.9	104.1	1,289.3	132
June	3,665.3	13,631.9	108.5	1,282.5	261
July	4,249.1	12,928.8	206.7	1,253.3	301
August	4,336.7	13,114.2	297.6	1,399.9	799
September	3,928.1	13,309.7	123.9	1,097.7	994
October	3,836.1	13,724.7	116.2	1,110.0	123
November	3,738.9	13,811.6	249.9	1,076.8	717
December	4,633.3	13,351.4	181.8	1,048.7	204
Total	47,917.2	---	2,170.2	---	4,647
Avg/Month	3,993.1	12,599.9	180.9	1,235.1	387
1981					
January	4,906.0	12,454.4	143.3	1,055.4	166
February	4,104.6	12,373.3	111.8	1,099.1	164
March	4,456.5	12,464.5	112.2	1,174.3	121
April	3,458.7	10,302.7	70.4	1,154.3	63
May	3,937.0	7,537.9	107.6	1,116.7	119

Source: FPC Form 4 of the major electric utilities and the Ohio Department of Energy.

Electric consumption by the residential and commercial sectors exhibits strong seasonal patterns while the industrial sector fluctuates widely with general economic conditions. In July 1980, industrial electric consumption dipped to the lowest point in recent years, reflecting a severe downturn in the manufacturing industry and more specifically the automobile related industries. Industrial electricity consumption has generally increased since that time, altnough not to the levels of early 1980.

Twelve-Month Electric Energy Demand Forecast

The electric demand forecast is prepared in two ways: 1) a utility by utility forecast is given, each forecast containing total projected demand for the utility's service area, which may or may not be located entirely within Ohio; and 2) an aggregate demand for electricity within the state of Ohio is forecasted by sector (residential, commercial and industrial).

Electric Demand Forecast by Utility Service Area

For each utility service area, two electric demand forecasts are provided. One of the forecasts is a reporting utility forecast and the other is provided by the Ohio Department of Energy (Appendix A, Tables A-1 through A-9).

The Ohio Department of Energy forecasts are based on monthly data from the utility reports between January 1970 and May 1981. No independent forecast is given for OVEC because this utility has only one customer whose demand is preplanned.

Because of the overlapping months for the forecasts prepared on July 1 and November 1, the utilities may elect to use their last forecasts for those overlapping months in the new forecasting period. Only the

Allegheny Power System chose to retain their earlier forecasts for July through October 1981. The American Electric Power Company, CEI, and Toledo Edison revised their forecasts downward and CG&E revised its forecast upward.

Utility forecasts of monthly demand for July 1981 through June 1982 are for the most part higher than those prepared by the Ohio Department of Energy. The only exceptions to that pattern are forecasts of demand of Cincinnati Gas and Electric Company and the Cleveland Electric Illuminating Company. Demand forecasts of the Ohio Department of Energy for the AEP System (excluding C&SOE), Columbus and Southern Electric Company, and Toledo Edison are much lower than forecasts prepared by the utilities (see Tables A-1 through A-9).

Electric Demand Forecast By Sector

Except for OVEC, Ohio's demand for electricity from all eight major reporting utilities may be estimated based on monthly consumption data from January 1971 through May 1981 (Table 6 and Figures 5 through 9). For each sector, this period provides a time series of 125 observations. Based on these observations, a forecasting model is constructed to generate a monthly forecast for the future months through June 1982. These sectoral forecasts are included in Appendix A, Tables A-10 through A-13.

The total Ohio demand forecast indicates that demand will be lower in every month than it was in the previous year (Table A-13). The residential sector demand forecast projects lower demand than the previous year for the months July 1981 through January 1982, followed by increases of 3.0, 3.7, 7.6, and 3.5 percent over the previous year for the months February 1982 through May 1982 (Table A-10). Commercial

Table 6. Ohio Electricity Consumption
June 1980 - May 1981
(Thousand MWH)

	June	July	August	September	October	November
Residential						
1980-81	1,942.2	2,387.1	2,711.1	2,560.5	2,012.9	2,193.3
1979-80	1,999.6	2,097.5	2,315.2	2,217.1	1,964.1	2,175.4
% Change*	-2.9	13.8	17.1	15.5	2.5	0.8
Commercial						
1980-81	1,622.4	1,830.1	1,946.0	1,907.2	1,617.6	1,579.3
1979-80	1,640.6	1,697.7	1,777.7	1,712.3	1,547.2	1,550.2
% Change*	-0.1	7.8	9.5	11.4	4.6	1.9
Industrial						
1980-81	3,616.0	3,475.9	3,621.3	3,806.1	3,910.3	3,823.2
1979-80	4,305.0	4,194.1	4,261.0	4,070.8	4,132.3	4,032.8
% Change*	-16.0	-17.1	-15.0	-6.5	-5.4	-5.2
Other						
1980-81	443.8	477.8	487.0	483.7	465.0	470.5
1979-80	444.3	444.7	459.6	444.4	461.0	458.7
% Change*	-0.11	7.4	6.0	8.8	1.1	2.6
Total						
1980-81	7,624.4	8,170.9	8,765.4	8,757.5	8,006.7	8,066.3
1979-80	8,389.4	8,434.0	8,813.5	8,444.3	8,104.6	8,217.1
% Change*	-9.1	-3.1	-0.5	3.7	-1.2	-1.8
Customers (000)						
Residential	3,428.6	3,426.5	3,427.6	3,429.6	3,433.8	3,439.2
Commercial	350.2	350.8	350.6	350.8	351.7	352.1
Industrial	22.7	22.8	22.9	22.9	23.0	23.0
Total	3,801.5	3,800.1	3,801.1	3,803.3	3,808.5	3,814.3

*Percentage change is from the same period of the previous year (1979-1980).

Notes: (1) Excludes sales to other utilities.

(2) Figures may not add to exact totals because of independent rounding.

(3) Figures reported include CG&E, CEI, C&SOE, DP&L, Monongahela Power, Ohio Edison, Ohio Power, and Toledo Edison.

Source: Ohio Electric Utility Institute's Monthly Summaries.

Table 6 Ohio Electricity Consumption (Continued)
June 1980 - May 1981
(Thousand MWH)

	December	January	February	March	April	May	Total
Residential							
1980-81	2,699.3	3,333.8	2,962.9	2,603.3	2,179.5	1,985.8	29,571.7
1979-80	2,541.1	2,946.4	2,978.8	2,827.9	2,374.0	1,955.3	28,392.4
% Change*	6.2	13.1	-0.5	-7.9	-8.2	1.6	4.2
Commercial							
1980-81	1,721.2	1,902.9	1,793.0	1,700.4	1,594.1	1,565.2	20,799.4
1979-80	1,642.2	1,732.7	1,785.8	1,720.5	1,596.7	1,518.9	19,922.5
% Change*	4.8	9.8	0.4	-1.2	-0.2	3.0	4.4
Industrial							
1980-81	3,918.8	3,861.1	3,952.8	4,048.0	3,927.2	3,930.4	45,891.1
1979-80	3,920.5	4,055.4	4,143.9	4,196.2	4,006.3	3,785.3	49,103.6
% Change*	0.0	-4.8	-4.6	-3.5	-2.0	3.8	-4.3
Other							
1980-81	506.1	507.8	502.2	506.5	420.6	390.7	5,662.6
1979-80	478.4	509.7	511.4	500.6	462.4	445.3	5,620.5
% Change*	5.8	-0.4	-1.8	1.2	-9.0	-12.3	0.7
Total							
1980-81	8,845.4	9,605.6	9,210.9	8,858.2	8,121.4	7,872.1	102,904.8
1979-80	8,582.2	9,244.2	9,419.9	9,245.0	8,439.5	7,704.9	103,038.6
% Change*	3.1	3.9	-2.2	-4.2	-3.8	2.2	-0.1
Customers (000)							
Residential	3,422.4	3,448.0	3,451.2	3,450.8	3,449.7	3,449.3	
Commercial	350.7	352.1	352.2	352.5	352.8	353.4	
Industrial	23.0	23.0	23.1	23.3	23.3	23.4	
Total	3,816.1	3,823.1	3,826.5	3,826.6	3,825.8	3,826.1	

*Percentage change is from the same period of the previous year (1979-1980).

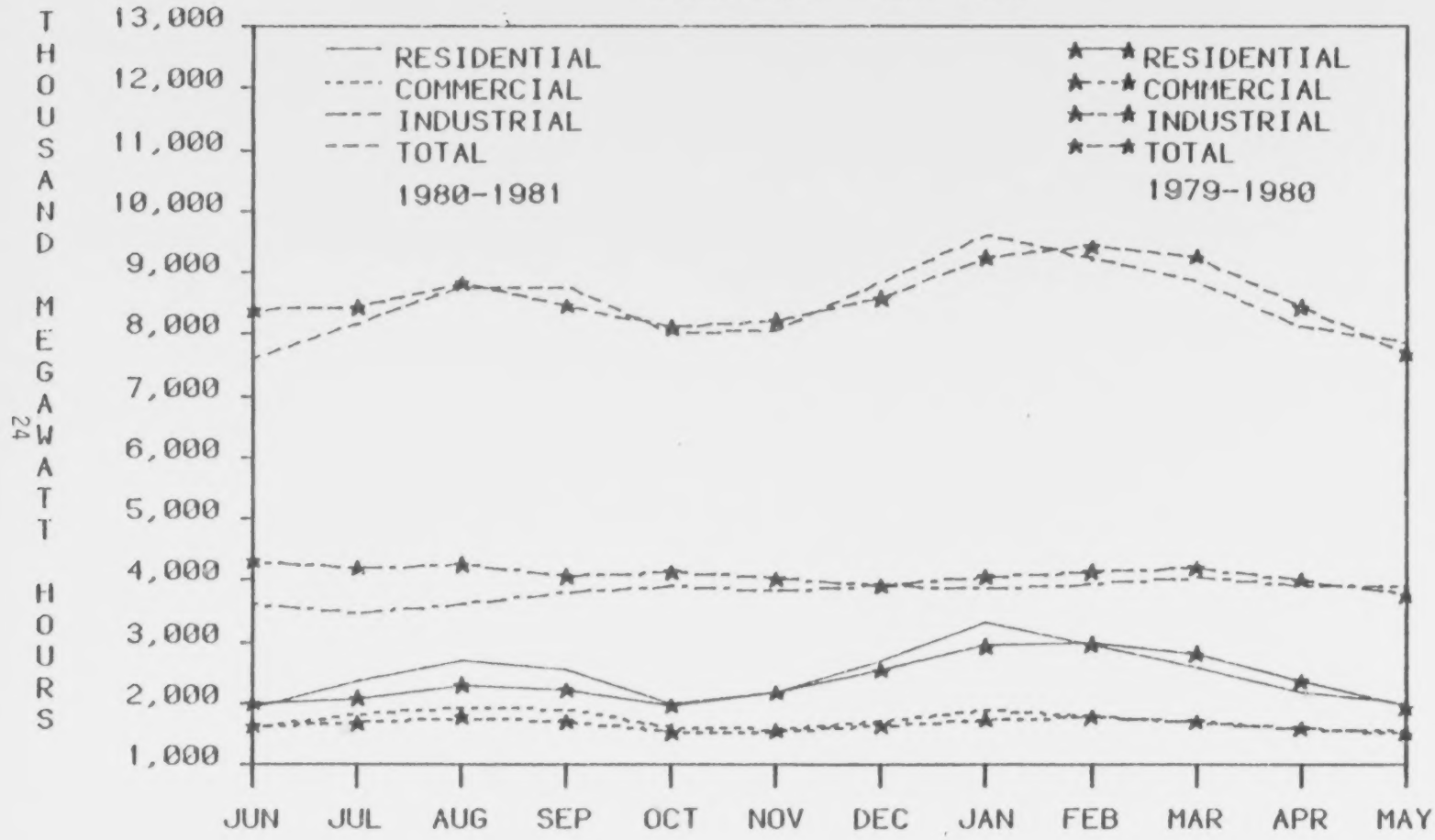
Notes: (1) Excludes sales to other utilities.

(2) Figures may not add to exact totals because of independent rounding.

(3) Figures reported include CG&E, CEI, C&SOE, DP&L, Monongahela Power, Ohio Edison, Ohio Power, and Toledo Edison.

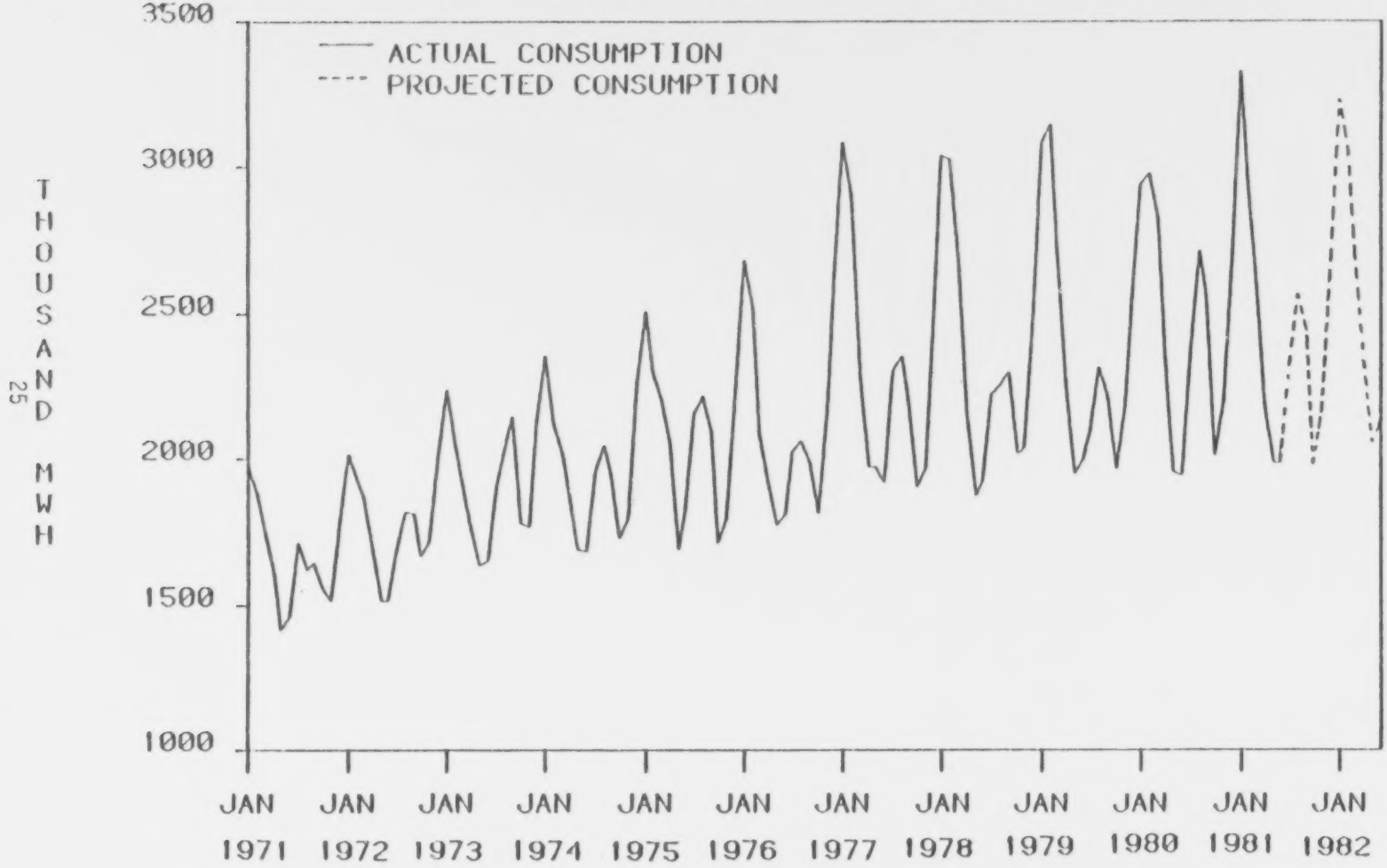
Source: Ohio Electric Utility Institute's Monthly Summaries.

FIG. 5. COMPARISON OF OHIO ELECTRICITY CONSUMPTION BY SECTOR
JUNE 1979 - MAY 1981



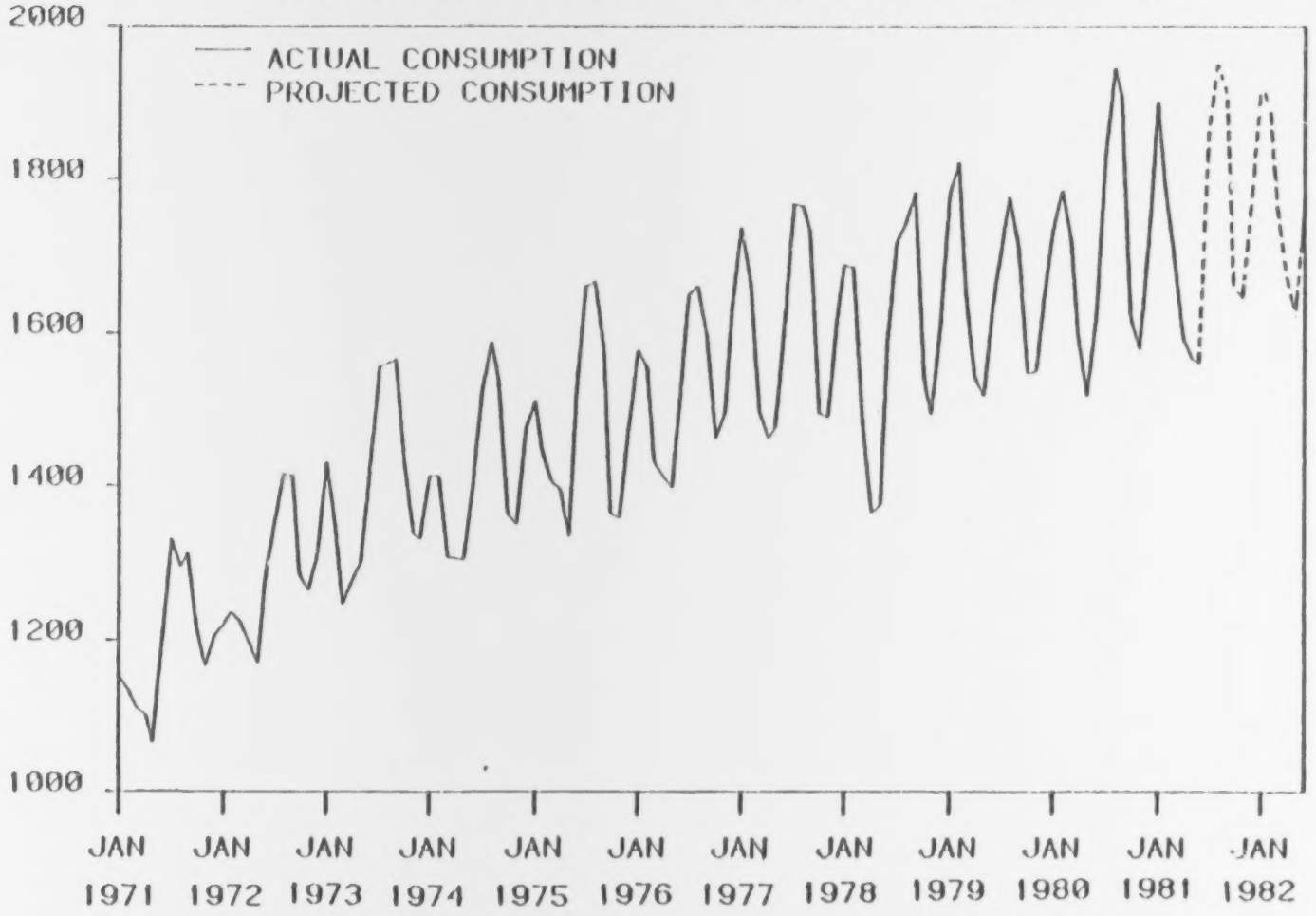
SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 6. MONTHLY OHIO RESIDENTIAL ELECTRICITY CONSUMPTION
ACTUAL AND PROJECTED (JANUARY 1971 - JUNE 1982)



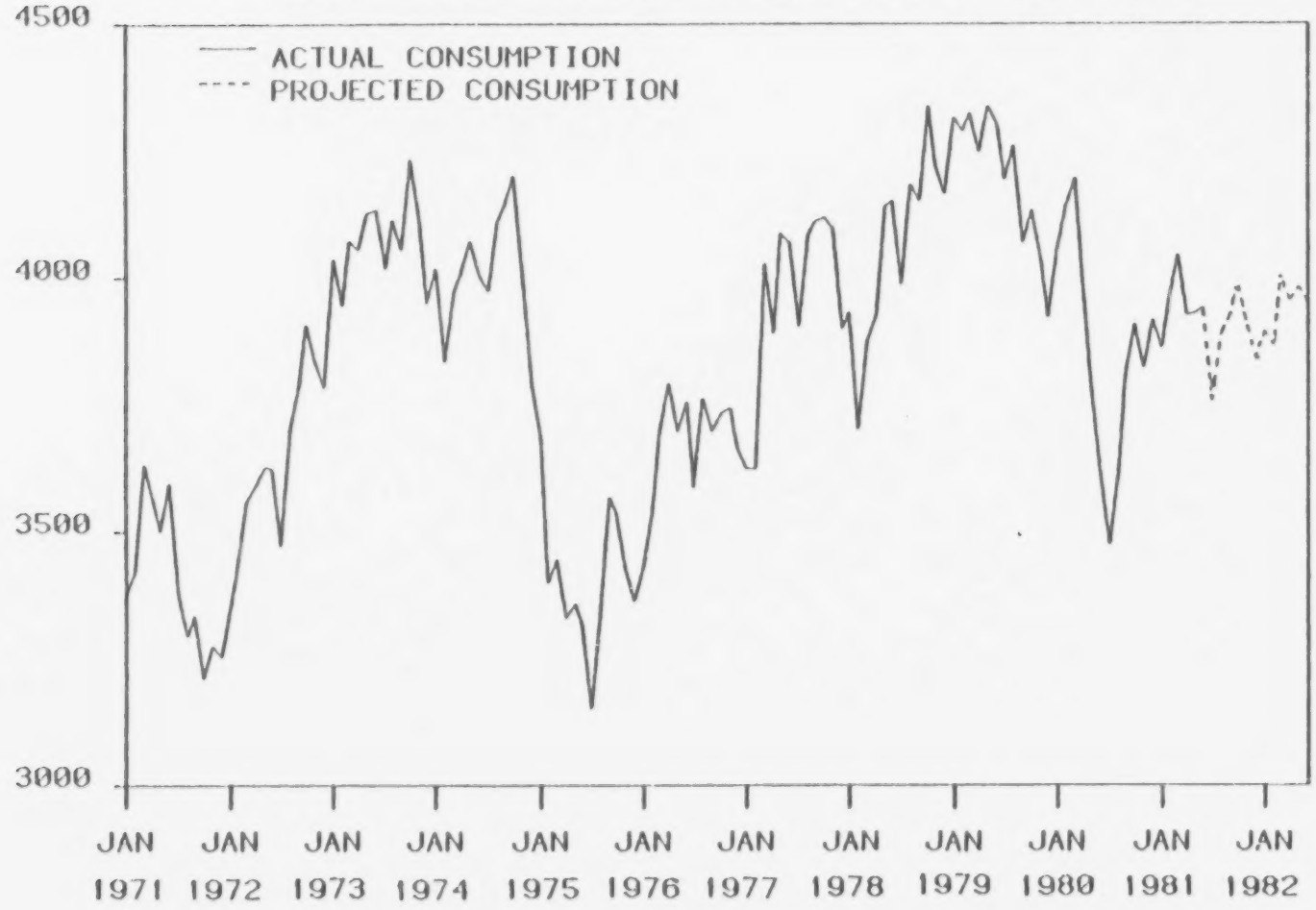
SOURCE: OHIO ELECTRIC UTILITY INSTITUTE AND THE OHIO DEPARTMENT OF ENERGY
(EXCLUDING OVEC)

FIGURE 7. MONTHLY OHIO COMMERCIAL ELECTRICITY CONSUMPTION
ACTUAL AND PROJECTED (JANUARY 1971 - JUNE 1982)



SOURCE: OHIO ELECTRIC UTILITY INSTITUTE AND THE OHIO DEPARTMENT OF ENERGY
(EXCLUDING OVEC)

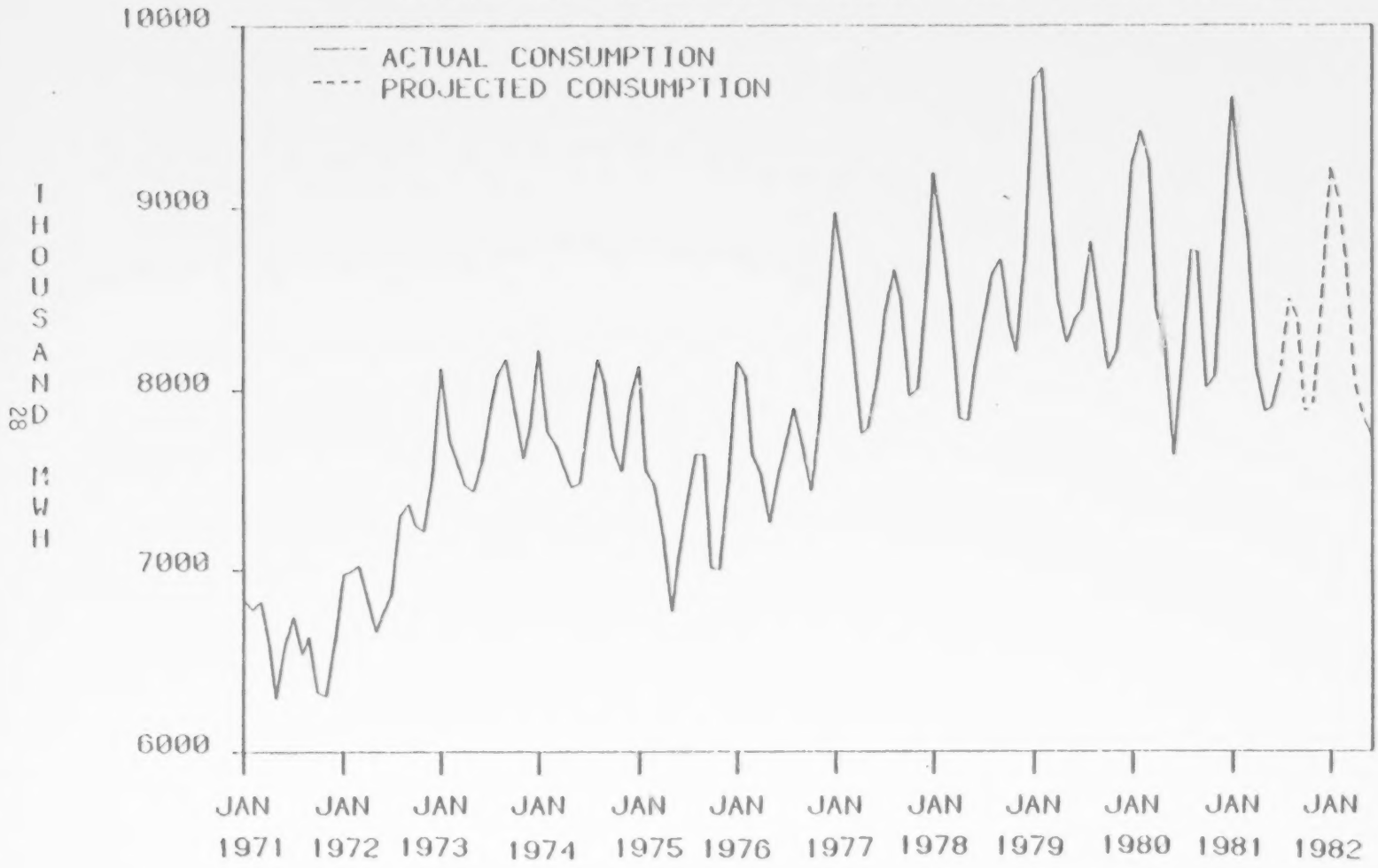
FIGURE 8. MONTHLY OHIO INDUSTRIAL ELECTRICITY CONSUMPTION
ACTUAL AND PROJECTED (JANUARY 1971 - JUNE 1982)



SOURCE: OHIO ELECTRIC UTILITY INSTITUTE AND THE OHIO DEPARTMENT OF ENERGY

(EXCLUDING OVEC)

FIGURE 9. MONTHLY OHIO TOTAL ELECTRICITY CONSUMPTION
ACTUAL AND PROJECTED (JANUARY 1971 - JUNE 1982)



SOURCE: OHIO ELECTRIC UTILITY INSTITUTE AND THE OHIO DEPARTMENT OF ENERGY
(EXCLUDING OVEC)

sector demand is forecast to increase in each month of the forecasting period over the same month of the previous year (Table A-11). Industrial sector demand is forecast to increase by from 2.4 to 8.1 percent each month over the previous year from July 1981 through November 1981. It will remain almost stable or decline from the previous year from December 1981 through June 1982 (Table A-12).

Assessment of Fuel Adequacy by Utility/Utility Group

Average daily requirements were determined by dividing projected monthly coal consumption by the number of days in the month. End-of-month stocks were derived by considering consecutively end of June 1981 stocks, projected monthly coal delivery schedules as submitted by the utilities, and projected monthly coal consumption levels. Number of days' supply of coal was estimated on the basis of average daily requirements in subsequent months and the level of end-of-month stocks for the month in question.

Coal consumption projections were made through the use of a formula which adjusts coal consumption levels for changes in the consumption of oil, natural gas, and nuclear fuel in a manner that is consistent with the projected demand or net energy for load. In making these projections it is assumed that the following conditions will be satisfied:

1. Monthly demand (net energy for load) for July 1981 through June 1982 will be realized in the manner projected by the utility companies.
2. Energy required to supply project net energy for load in a given month of July 1981 through June 1982 will be proportional to the energy consumed in supplying the actual net energy for load in the respective months of July 1980 through June 1981.

3. Monthly delivery schedules for all fuels in 1981 through 1982 will be met in the manner projected by the utility companies.

In the case of the former CAPCO and CCD utility groups, where individual members have interconnected transmission systems and operate jointly owned generation units, the figures presented in this report for the total groups are more significant than those reported for the individual members. As displayed in Table 7, the number of days' supply of coal through the end of June, 1982 for AEP, APS, and former CCD and CAPCO utility groups ranges from 36 days for APS in January 1982 to 100 days for the former CCD group in June 1982. No coal supply disruption is foreseen during the forecasting period.

The assessment of oil adequacy is derived by using utilities' projected monthly consumption and deliveries. The projected deliveries are low when compared to the consumption levels experienced in the 1970's. Oil deliveries are believed sufficient, however, since the utilities have demonstrated their ability to reduce fuel oil consumption dramatically since the late 1970's. For the twelve month period from June 1980 through May 1981, utility consumption of oil was 38.4 percent lower than in the preceding twelve month period.

Table 7. Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model
(July 1981 - June 1982)

CAPCO GROUP (EXCLUDING DUQUESNE LIGHT COMPANY)

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	4468.1	4524.9	4233.6	4332.4	4293.9	4569.3	4904.7	4356.9	4622.9	4294.0	4293.7	4551.7	53446.1
EST DEMAND GEN BY COAL	3653.8	3712.0	3415.6	3544.0	3522.3	3871.7	4098.9	3150.2	3546.8	3395.2	3449.6	3757.9	43118.1
EST DEMAND GEN BY OIL	20.0	27.2	30.8	77.0	73.5	59.7	88.5	83.7	55.4	49.2	47.1	53.0	665.0
PROJ DAILY CONSUMPTION													
COAL (KTONS)	52.02	52.85	50.25	50.46	51.82	55.12	58.36	49.66	50.50	49.95	49.11	55.28	
OIL (KBBL)	1.39	1.89	2.21	5.36	5.28	4.15	6.16	6.45	3.86	3.54	3.28	3.81	
COAL DELIVERIES (KTONS)	1443.7	1557.0	1531.6	1664.2	1595.8	1554.3	1695.8	1496.3	1613.2	1603.1	1569.3	1617.7	18941.8
OIL DELIVERIES (KBBL)	25.79	38.14	80.31	119.37	89.77	81.12	118.33	89.16	108.69	145.11	116.96	96.40	1109.16
END OF MONTH STOCK													
COAL (KTONS)	3730.4	3649.1	3673.2	3773.3	3814.5	3660.0	3546.7	3652.7	3700.4	3805.1	3851.9	3811.1	
OIL (KBBL)	474.6	454.1	468.0	421.2	352.4	304.8	232.2	140.9	130.1	169.0	184.4	166.4	
NUMBER OF DAYS SUPPLY													
COAL	73.	72.	71.	70.	68.	68.	71.	73.	73.	72.	70.	69.	
OIL	128.	106.	94.	83.	67.	49.	41.	37.	37.	49.	48.	44.	

CLEVELAND ELECTRIC ILLUMINATING COMPANY

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	1661.0	1668.0	1586.0	1615.0	1542.0	1685.0	1756.0	1544.0	1691.0	1550.0	1630.0	1685.0	19613.0
EST DEMAND GEN BY COAL	1079.6	1084.2	1030.9	1049.7	1002.3	1095.2	1141.4	926.4	1183.7	1085.0	1141.0	1044.7	12864.2
EST DEMAND GEN BY OIL	6.6	5.0	6.3	43.6	29.3	43.8	35.1	49.4	33.8	27.9	24.4	25.3	330.7
PROJ DAILY CONSUMPTION													
COAL (KTONS)	14.99	15.05	14.79	14.57	14.38	15.20	15.84	14.24	16.43	15.56	15.84	14.98	
OIL (KBBL)	0.48	0.36	0.47	3.12	2.17	3.13	2.51	3.91	2.42	2.06	1.75	1.87	
COAL DELIVERIES (KTONS)	432.8	444.8	426.6	465.5	464.7	440.0	467.4	409.6	500.5	513.6	515.9	453.4	5534.8
OIL DELIVERIES (KBBL)	9.52	0.0	31.10	46.64	22.21	25.55	42.69	37.93	79.60	79.60	37.93	37.93	450.70
END OF MONTH STOCK													
COAL (KTONS)	780.2	758.5	741.5	755.3	788.7	757.4	733.7	744.6	735.8	782.5	807.4	811.3	
OIL (KBBL)	309.9	298.8	315.8	265.8	223.0	151.4	116.2	44.5	49.1	66.9	50.6	32.4	
NUMBER OF DAYS SUPPLY													
COAL	52.	52.	51.	51.	51.	50.	48.	46.	47.	50.	54.	54.	
OIL	163.	132.	115.	99.	74.	50.	31.	18.	24.	38.	27.	17.	

Table 7. Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(July 1981 - June 1982)

OHIO EDISON SYSTEM

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	2123.8	2155.3	1977.1	2050.3	2073.7	2157.7	2372.6	2046.5	2163.6	2050.6	1999.8	2178.1	25349.1
EST DEMAND GEN BY COAL	2166.3	2198.4	2016.6	2091.3	2115.2	2330.3	2562.4	1882.8	1990.5	1886.6	1839.8	2287.0	25367.1
EST DEMAND GEN BY OIL	10.6	19.4	21.7	30.8	41.5	12.9	33.2	14.3	10.8	14.4	16.0	17.4	243.1
PROJ DAILY CONSUMPTION													
COAL (KTONS)	32.38	32.86	31.14	31.25	32.67	34.83	38.30	31.15	29.75	29.13	27.50	35.32	
OIL (KBBL)	0.73	1.33	1.54	2.10	2.93	0.89	2.27	1.08	0.74	1.01	1.09	1.23	
COAL DELIVERIES (KTONS)	870.9	932.2	915.0	1008.7	947.1	925.3	1056.9	889.4	899.7	864.8	869.9	1010.1	11189.8
OIL DELIVERIES (KBBL)	10.08	32.67	37.30	47.85	55.36	32.90	73.85	38.04	27.00	62.41	61.17	55.97	534.61
END OF MONTH STOCK													
COAL (KTONS)	2699.5	2613.1	2593.9	2633.6	2600.8	2446.4	2316.1	2333.2	2310.7	2301.4	2318.9	2269.4	
OIL (KBBL)	104.8	96.3	87.5	70.2	37.7	43.1	46.6	54.2	58.3	90.3	117.6	136.6	
NUMBER OF DAYS SUPPLY													
COAL	85.	83.	80.	76.	73.	72.	77.	81.	78.	72.	66.	64.	
OIL	69.	54.	39.	24.	35.	19.	50.	62.	55.	77.	95.	111.	

TOLEDO EDISON

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	683.3	701.6	670.5	667.1	678.2	726.6	776.1	766.4	768.3	693.4	663.9	688.6	8484.0
EST DEMAND GEN BY COAL	407.9	429.4	368.1	402.9	404.9	446.1	395.1	341.1	372.6	423.7	468.7	426.2	4886.7
EST DEMAND GEN BY OIL	2.7	2.8	2.7	2.7	2.7	2.9	20.2	19.9	10.8	6.9	6.6	10.3	91.3
PROJ DAILY CONSUMPTION													
COAL (KTONS)	5.28	5.56	4.92	5.22	5.42	5.78	5.11	4.89	4.82	5.67	6.07	5.70	
OIL (KBBL)	0.19	0.19	0.19	0.18	0.19	0.20	1.39	1.52	0.74	0.49	0.46	0.73	
COAL DELIVERIES (KTONS)	140.0	180.0	190.0	190.0	184.0	189.0	171.5	197.3	213.0	224.8	183.4	154.2	2217.2
OIL DELIVERIES (KBBL)	6.19	5.48	11.90	24.88	12.19	22.67	1.79	13.19	2.09	3.10	17.86	2.50	123.85
END OF MONTH STOCK													
COAL (KTONS)	231.4	239.0	281.3	309.6	331.2	341.1	354.1	414.5	478.0	532.7	528.1	511.3	
OIL (KBBL)	60.1	59.6	65.7	84.9	91.3	107.8	66.6	37.3	16.5	4.8	8.5	-11.0	
NUMBER OF DAYS SUPPLY													
COAL	43.	48.	53.	55.	61.	68.	71.	77.	82.	91.	93.	90.	
OIL	175.	148.	126.	112.	90.	89.	61.	60.	34.	11.	12.	-15.	

Table 7. Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(July 1981 - June 1982)

CCD GROUP

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	3383.9	3393.3	2956.9	2902.9	2999.9	3431.7	3692.3	3293.0	3178.9	2891.3	2938.0	3129.6	38191.7
EST DEMAND GEN BY COAL	3295.5	3145.2	2812.8	2957.6	3329.2	3805.5	4199.3	3658.3	2782.6	2500.5	2471.6	2631.7	37589.8
EST DEMAND GEN BY OIL	54.2	46.6	45.7	71.5	44.2	51.4	56.6	54.7	44.9	31.4	28.6	25.7	555.6
PROJ DAILY CONSUMPTION													
COAL (KTONS)	49.52	47.26	43.67	44.44	51.69	57.18	63.10	60.86	41.81	38.82	37.14	40.86	
OIL (KBBL)	7.95	6.82	6.92	10.48	6.70	7.53	8.30	8.88	6.59	4.76	4.20	3.89	
COAL DELIVERIES (KTONS)	1247.0	1729.0	1668.0	1595.0	1589.0	1738.0	1687.0	1537.0	1399.0	1381.0	1463.0	1464.0	18497.0
OIL DELIVERIES (KBBL)	77.86	67.73	36.45	64.50	26.14	60.91	78.90	95.69	104.69	20.21	37.45	58.45	728.99
END OF MONTH STOCK													
COAL (KTONS)	2812.4	3076.4	3434.2	3651.6	3689.9	3655.3	3386.3	3219.3	3322.2	3538.4	3850.2	4088.3	
OIL (KBBL)	3388.9	3245.1	3073.8	2813.3	2638.5	2465.9	2287.6	2134.6	2035.1	1912.4	1819.8	1761.5	
NUMBER OF DAYS SUPPLY													
COAL	62.	69.	70.	66.	61.	59.	69.	81.	86.	89.	94.	100.	
OIL	619.	606.	585.	571.	547.	532.	521.	518.	514.	489.	468.	453.	

CINCINNATI GAS & ELECTRIC

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	1475.2	1489.5	1245.5	1205.4	1249.5	1437.8	1558.7	1359.5	1313.3	1199.7	1275.7	1362.1	16171.9
EST DEMAND GEN BY COAL	1194.9	1206.5	1008.9	976.4	1149.5	1322.8	1434.0	1250.8	985.0	899.8	956.8	1021.6	13406.8
EST DEMAND GEN BY OIL	11.8	8.9	6.2	7.2	8.7	7.2	10.9	9.5	5.3	4.8	6.4	6.8	93.8
PROJ DAILY CONSUMPTION													
COAL (KTONS)	17.83	18.00	15.55	14.57	17.72	19.74	21.39	20.66	14.70	13.87	14.27	15.75	
OIL (KBBL)	2.01	1.53	1.10	1.23	1.54	1.23	1.86	1.80	0.90	0.85	1.09	1.20	
COAL DELIVERIES (KTONS)	600.0	600.0	513.0	500.0	525.0	600.0	600.0	550.0	500.0	520.0	550.0	550.0	6608.0
OIL DELIVERIES (KBBL)	10.00	45.00	15.00	35.00	0.0	30.00	30.00	50.00	70.00	0.0	20.00	40.00	345.00
END OF MONTH STOCK													
COAL (KTONS)	1347.8	1389.8	1436.2	1484.6	1477.9	1466.1	1402.9	1374.4	1418.9	1522.7	1630.2	1707.8	
OIL (KBBL)	124.4	122.1	104.1	100.9	54.6	46.6	18.9	18.5	60.7	35.4	21.6	25.6	
NUMBER OF DAYS SUPPLY													
COAL	83.	88.	84.	77.	72.	74.	86.	96.	97.	100.	104.	108.	
OIL	96.	95.	77.	70.	40.	25.	10.	21.	62.	32.	18.	21.	

Table 7. Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(July 1981 - June 1982)

DAYTON POWER & LIGHT

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	964.7	939.8	837.4	883.5	911.5	1030.8	1087.6	1004.5	969.6	860.6	857.3	905.5	11252.8
EST DEMAND GEN BY COAL	1109.5	1080.7	921.1	971.8	1139.3	1288.5	1468.3	1255.6	1018.1	877.8	814.5	860.2	12805.5
EST DEMAND GEN BY OIL	40.5	36.7	36.8	61.8	34.6	42.3	45.7	45.2	38.8	25.8	21.4	16.3	446.0
PROJ DAILY CONSUMPTION													
COAL (KTONS)	16.14	15.72	13.85	14.14	17.13	18.75	21.36	20.22	14.81	13.20	11.85	12.93	
OIL (KBBL)	2.61	2.36	2.45	3.98	2.31	2.72	2.94	3.22	2.50	1.72	1.38	1.08	
COAL DELIVERIES (KTONS)	250.0	574.0	599.0	513.0	561.0	584.0	610.0	513.0	396.0	387.0	445.0	428.0	5860.0
OIL DELIVERIES (KBBL)	60.00	15.00	14.00	22.00	18.00	23.00	41.00	38.00	27.00	13.00	10.00	11.00	292.00
END OF MONTH STOCK													
COAL (KTONS)	897.6	984.2	1167.8	1242.5	1289.7	1292.5	1240.3	1187.1	1123.9	1115.0	1192.7	1232.7	
OIL (KBBL)	3339.1	3280.9	3221.3	3119.8	3068.7	3007.3	2957.1	2904.8	2854.4	2815.8	2783.0	2761.5	
NUMBER OF DAYS SUPPLY													
COAL	61.	69.	73.	68.	64.	63.	75.	89.	89.	89.	92.	95.	
OIL	2666.	2648.	2631.	2621.	2607.	2597.	2604.	2611.	2605.	2587.	2565.	2545.	

COLUMBUS & SOUTHERN OHIO ELECTRIC COMPANY

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	944.0	964.0	874.0	814.0	839.0	963.0	1046.0	929.0	896.0	831.0	805.0	862.0	10767.0
EST DEMAND GEN BY COAL	991.2	858.0	882.7	1009.4	1040.4	1194.1	1297.0	1152.0	779.5	723.0	700.3	749.9	11377.5
EST DEMAND GEN BY OIL	1.9	1.0	2.6	2.4	0.8	1.9	0.0	0.0	0.9	0.8	0.8	2.6	15.8
PROJ DAILY CONSUMPTION													
COAL (KTONS)	15.55	13.46	14.31	15.83	16.86	18.73	20.34	20.00	12.23	11.72	10.98	12.15	
OIL (KBBL)	0.37	0.19	0.53	0.48	0.17	0.38	0.0	0.0	0.18	0.17	0.16	0.52	
COAL DELIVERIES (KTONS)	397.0	555.0	556.0	582.0	503.0	554.0	477.0	474.0	503.0	474.0	468.0	486.0	6029.0
OIL DELIVERIES (KBBL)	7.86	7.73	7.45	7.50	8.14	7.91	7.90	7.69	7.69	7.21	7.45	7.45	91.99
END OF MONTH STOCK													
COAL (KTONS)	567.1	704.9	831.7	923.0	920.2	893.6	740.0	653.9	777.9	900.4	1027.9	1149.2	
OIL (KBBL)	17.0	18.8	10.3	2.9	6.0	2.2	10.1	17.8	20.0	22.1	24.7	16.4	
NUMBER OF DAYS SUPPLY													
COAL	41.	47.	51.	52.	48.	44.	43.	54.	68.	77.	85.	95.	
OIL	52.	36.	22.	17.	16.	71.	86.	96.	80.	64.	47.	31.	

Table 7. Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(July 1981 - June 1982)

AMERICAN ELECTRIC POWER SYSTEM

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	6230.0	6543.0	6147.0	6289.0	6552.0	7388.0	8162.0	7416.0	7289.0	6495.0	6401.0	6265.0	81176.9
EST DEMAND GEN BY COAL	7289.1	7459.0	6700.2	5408.5	7010.6	8422.3	9223.1	8305.9	8090.8	6819.7	6657.0	7204.7	88591.1
EST DEMAND GEN BY OIL	6.2	6.5	6.1	0.0	0.0	7.4	8.2	7.4	0.0	6.5	6.4	6.3	61.0
PROJ DAILY CONSUMPTION													
COAL (KTONS)	105.43	107.89	100.15	78.23	104.79	121.82	133.41	133.01	117.03	101.93	96.29	107.69	
OIL (KBBL)	3.50	3.67	3.57	0.0	0.0	4.15	4.58	4.61	0.0	3.77	3.59	3.63	
COAL DELIVERIES (KTONS)	2894.0	4044.0	4052.0	4243.0	3666.0	4055.0	3320.0	3324.0	3780.0	3338.0	3203.0	3412.0	43331.0
OIL DELIVERIES (KBBL)	57.52	56.65	56.32	52.98	61.60	60.23	60.36	59.05	57.86	62.47	62.40	56.31	703.76
END OF MONTH STOCK													
COAL (KTONS)	4659.0	5358.9	6406.6	8224.4	8746.8	9025.2	8209.6	7809.2	7961.3	8241.4	8459.3	8640.7	
OIL (KBBL)	444.1	386.9	336.2	389.2	450.8	382.5	300.8	230.8	288.6	238.0	189.0	136.3	
NUMBER OF DAYS SUPPLY													
COAL	44.	60.	68.	71.	68.	69.	67.	73.	79.	80.	79.	80.	
OIL	174.	155.	137.	118.	135.	120.	105.	94.	79.	66.	52.	38.	

ALLEGHENY POWER SYSTEM

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	2622.7	2724.7	2607.3	2717.0	2708.7	3021.6	3226.3	2992.0	2969.7	2697.9	2707.3	2602.6	33597.8
EST DEMAND GEN BY COAL	2911.2	3024.4	2894.1	3015.9	3006.7	3354.0	3581.2	3321.1	3296.4	3183.5	3194.6	3071.1	37854.0
EST DEMAND GEN BY OIL	26.2	24.5	18.3	19.0	13.5	15.1	16.1	15.0	8.9	10.8	10.8	7.8	186.1
PROJ DAILY CONSUMPTION													
COAL (KTONS)	38.60	40.10	39.65	39.98	41.19	44.47	47.48	48.75	43.70	43.61	42.35	42.07	
OIL (KBBL)	3.48	3.26	2.51	2.53	1.86	2.01	2.14	2.20	1.18	1.48	1.44	1.07	
COAL DELIVERIES (KTONS)	1202.7	1202.7	1202.7	1202.7	1202.7	1202.7	1296.9	1296.9	1296.9	1296.9	1296.9	1296.9	14997.2
OIL DELIVERIES (KBBL)	43.34	43.34	43.34	43.34	43.34	43.34	65.97	65.97	65.97	65.97	65.97	65.97	655.88
END OF MONTH STOCK													
COAL (KTONS)	2144.4	2104.0	2117.2	2080.3	2047.2	1871.4	1696.4	1628.3	1570.4	1558.8	1542.7	1577.4	
OIL (KBBL)	321.1	263.4	231.6	196.7	184.2	165.4	164.9	169.3	198.6	220.1	241.5	275.3	
NUMBER OF DAYS SUPPLY													
COAL	54.	53.	52.	49.	45.	39.	36.	37.	36.	37.	37.	37.	
OIL	127.	118.	108.	98.	87.	90.	104.	133.	163.	195.	225.	257.	

Table 7. Electric Utilities Demand Forecast, Fuel Assessment, and Inventory Model (Cont'd)
(July 1981 - June 1982)

OHIO VALLEY ELECTRIC CORPORATION

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
DEMAND FORECAST (GWH)	1418.9	1363.0	1306.9	1383.4	1416.7	1468.1	1428.8	1259.0	1424.4	1373.2	1448.0	1356.5	16647.0
EST DEMAND GEN BY COAL	1418.9	1485.7	1489.9	1328.0	1345.8	1409.4	1343.1	1221.2	1310.5	1345.7	1448.0	1315.8	16462.1
EST DEMAND GEN BY OIL	1.4	1.4	1.3	1.4	1.4	1.5	1.4	1.3	1.4	1.4	1.4	1.4	16.6
PROJ DAILY CONSUMPTION													
COAL (KTONS)	19.74	20.67	21.42	18.48	19.35	19.61	18.69	18.81	18.23	19.35	20.15	18.92	
OIL (KBBL)	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	
COAL DELIVERIES (KTONS)	691.1	668.0	639.6	655.6	663.5	684.0	598.3	530.4	604.3	587.3	697.2	669.8	7689.1
OIL DELIVERIES (KBBL)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	18.00
END OF MONTH STOCK													
COAL (KTONS)	855.3	882.5	879.6	962.4	1045.4	1121.5	1140.6	1144.3	1183.3	1190.2	1262.9	1365.2	
OIL (KBBL)	4.7	3.4	2.3	1.1	-0.3	-1.7	-3.1	-4.1	-5.4	-6.7	-8.1	-9.3	
NUMBER OF DAYS SUPPLY													
COAL	41.	43.	47.	49.	54.	60.	62.	61.	60.	61.	67.	72.	
OIL	53.	39.	26.	11.	-3.	-19.	-34.	-45.	-59.	-72.	-89.	-103.	

NATURAL GAS

Service shares of the gas distribution companies operating in Ohio are presented in Table 8 for the annual period June 1980 to May 1981. During this period of time, the four large distribution companies - Cincinnati Gas and Electric, Columbia Gas of Ohio, Dayton Power and Light, and East Ohio Gas - jointly distributed 93.93 percent of the reported natural gas requirements of the state. The four intermediate companies - National Gas and Oil, Ohio Gas, River Gas, and West Ohio Gas - distributed an additional 4.33 percent. The remaining 1.74 percent of the reported natural gas requirements were distributed by 22 small utilities and two municipal utilities. The figures presented in Table 8 do not include self-help natural gas.

Supply

The major supplies of natural gas for the state of Ohio are presented in Table 9, and shown graphically in Figure 10. Between June 1980 and May 1981, the eight major gas distribution companies of Ohio, which together account for 98.26 percent of the reported natural gas distribution in the state, procured 919,397 MMCF of natural gas to meet Ohio's requirements. This represents a 4.7 percent decrease in the supplies of natural gas to Ohio compared to the same period last year. This decline is not due to a reduction in the availability of natural gas supplies as such. Rather, this reflects an adjustment by Ohio's gas distribution companies to the declining demand for natural gas by residential, commercial, and especially industrial end users in Ohio. The various causes are effective conservation measures, the recession of 1980-1981, and the latest round of price increases for fuel oil and natural gas in 1980.

Table 8. Total Natural Gas Requirements of All Commercial Utilities in Ohio Between June 1980 and May 1981 (MMCF)

	(1) Sales to All End Users	(2) Storage (In)	Total Requirement (1+2)	Percent of Total Ohio Requirement
Cincinnati Gas and Electric Co.	89,317	0	89,317	9.55
Columbia Gas of Ohio	342,491	-4,283	338,208	36.15
Dayton Power and Light Co.	59,367	595	59,962	6.41
East Ohio Gas Co.	330,844	60,502	391,346	41.82
National Gas and Oil Co.	14,516	930	15,446	1.65
Ohio Gas Co.	7,013	31	7,044	0.75
River Gas Co.	4,559	0	4,559	0.49
West Ohio Gas Co.	13,510	0	13,510	1.44
Total Eignt Utilities	861,617	57,775	919,392	98.26
Total Small Major Utilities	8,634	--	8,634	0.92
Municipal Utilities	7,661	--	7,661	0.82
Total All Utilities	877,912	57,775	935,687	100.00

Source: ODOE Form SG-2 and SG-4.

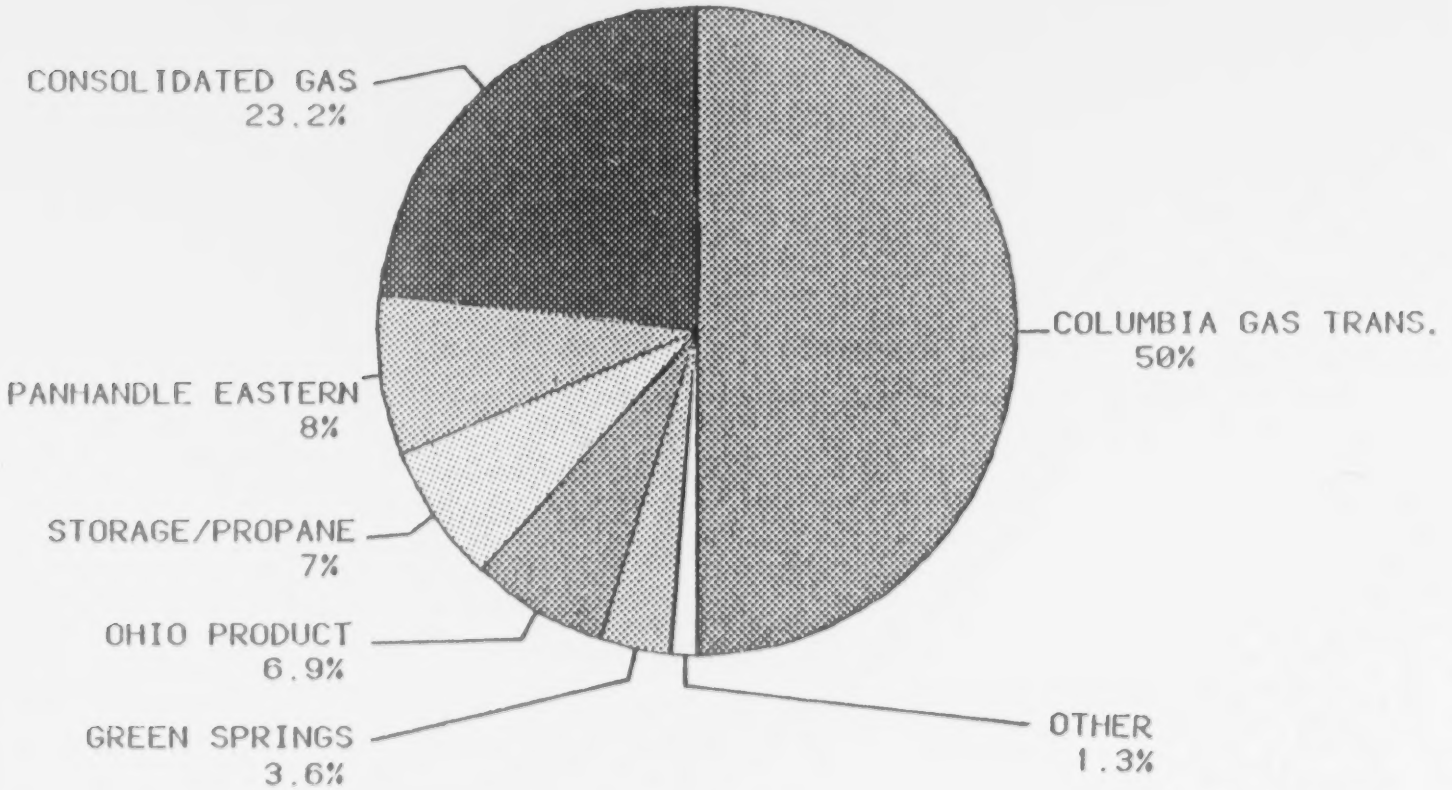
Table 9. Sources of Natural Gas Supplies to the Eight Major Gas Utilities Between June 1980 and May 1981 (MMCF)

Source	Supply	Percent Of Total	Rank
Columbia Gas Transmission Corp.	460,096	50.04	1
Consolidated Gas Supply Corp.	213,334	23.20	2
Lawrenceburg Gas Transmission Corp.	2,504	0.27	8
Michigan/Wisconsin Pipe Line Co.	621	0.07	10
Panhandle Eastern Pipe Line Co.	73,308	8.00	3
Tennessee Gas Pipeline Co.	1,746	0.19	9
Texas Eastern Transmission Corp.	7,068	0.77	7
Texas Gas Transmission Corp.	261	0.03	11
Green Springs (SNG)	32,644	3.55	6
Storage/Propane*	63,987	7.00	4
Other	-43	0.00	
Total SNG and Out-of-State	855,526	93.05	
Ohio Product	63,871	6.95	5
Total	919,397	100.00	

*Gas in storage represents a source during the period under consideration.

Source: ODOE Form SG-2.

FIGURE 10. SOURCE OF NATURAL GAS SUPPLY TO
THE EIGHT MAJOR OHIO GAS UTILITIES (JUNE 1980 - MAY 1981)



SOURCE: THE OHIO DEPARTMENT OF ENERGY

Of the 919,397 MMCF of total procurement, 93.05 percent is interstate gas purchases and SNG. The remaining 6.95 percent is purchases of Ohio gas. The 63,871 MMCF of Ohio production of natural gas purchased by the eight major gas utilities between June 1980 and May 1981 represents a 10.3 percent decrease below their purchases of Ohio product during the preceding annual period. This amount corresponds approximately to 46 percent of the state's total production in the calendar year 1980. The remainder of the natural gas produced in Ohio is either transported directly to end users in the self-help program, or is distributed by some of the 22 smaller utilities and the municipal gas utilities.

Domestic interstate gas is the major source of supply for Ohio. Columbia Gas Transmission Corporation and Consolidated Gas Supply Corporation have provided 73.24 percent of the natural gas supplied to the eight major Ohio gas distribution companies. No LNG imports were included in these supplies; and no LNG imports are anticipated by Columbia as a source of supply for the 1981-82 heating season.

Table 10 exhibits a monthly comparison of actual and projected supplies, by source, for the eight major gas utilities. Actual levels and sources of supplies to individual utilities, for the past two years, are presented in Appendix B, Tables B-1 through B-8.

Historical Behavior of Monthly Sectoral Requirements

The regularities in the monthly time series behavior of residential, commercial, industrial, and total natural gas requirements in Ohio, from January 1970 through May 1981, are displayed in Figures 11, 12, 13, and 14. The seasonal variation in residential and commercial requirements can easily be discerned from these illustrations. Natural gas usage in all sectors peaks during the heating season, and falls off during the

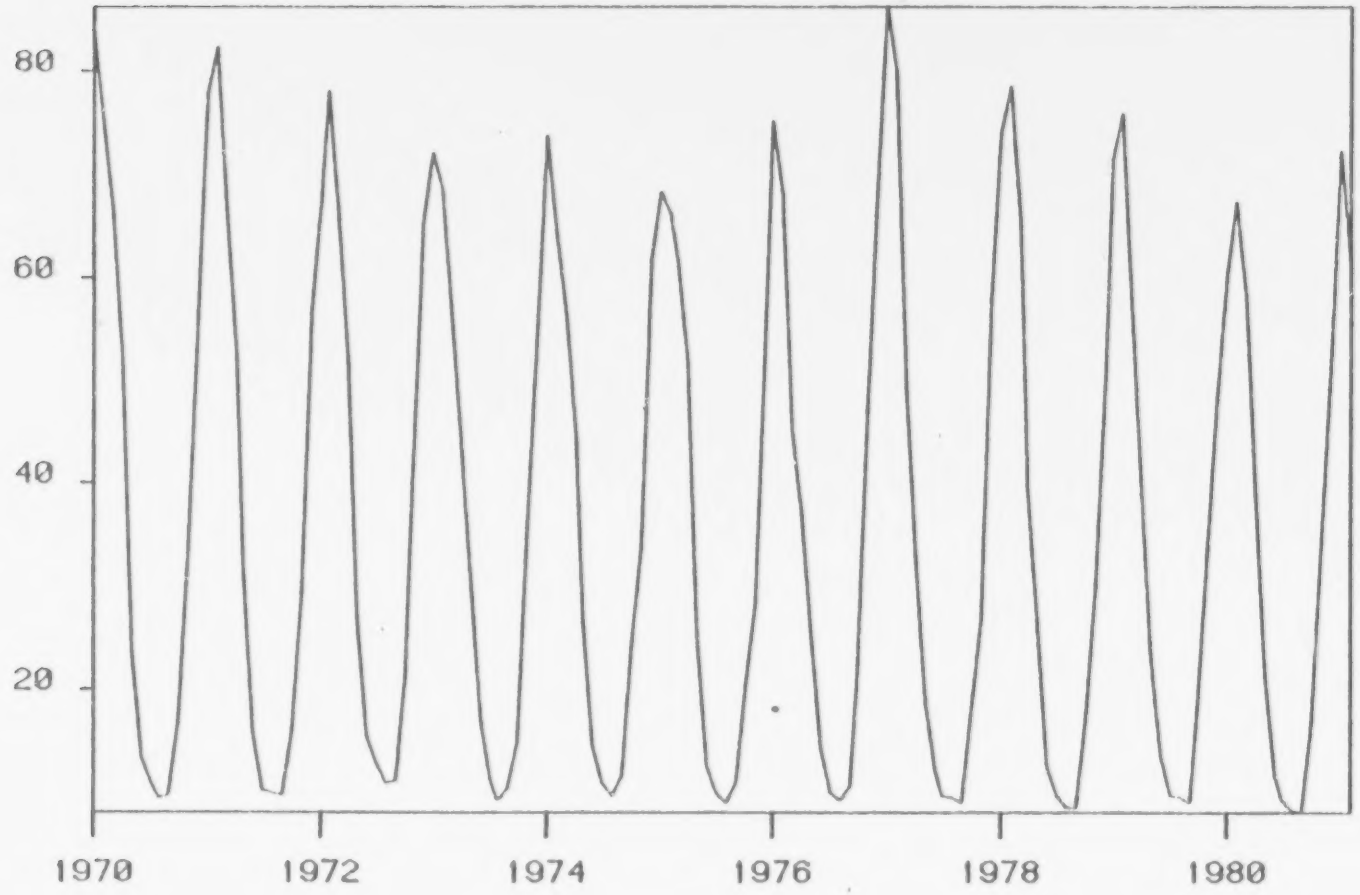
Table 10. Comparison Between One Year of Actual and Forecast Supply for Eight Major Ohio Gas Utilities by Source (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/81	22428	14910	195	7	6206	150	600	7	0	5351	1636	165	15	51670
6/80	17133	12588	259	5	5567	149	546	6	0	5514	1635	142	-117	43427
	30.9%	18.4%	-24.7%	40.0%	11.5%	0.7%	9.9%	16.7%	0.0%	-3.0%	0.1%	16.2%	112.8%	19.0%
7/81	17768	12317	263	7	6268	125	620	9	0	5138	1633	170	-5	44313
7/80	15694	9302	258	5	5881	153	606	6	0	6059	1486	153	-40	39563
	13.2%	32.4%	1.9%	40.0%	6.6%	-18.3%	2.3%	50.0%	0.0%	-15.2%	9.9%	11.1%	87.5%	12.0%
8/81	19950	12679	224	7	6318	125	620	9	0	5131	1661	165	-20	46869
8/80	16966	9763	256	6	5872	153	469	7	0	5495	1490	153	15	40645
	17.6%	29.9%	-12.5%	16.7%	7.6%	-18.3%	32.2%	28.6%	0.0%	-6.6%	11.5%	7.8%	-233.3%	15.3%
9/81	20546	14722	255	34	6402	146	600	13	0	5132	1789	165	-41	49763
9/80	17828	11432	247	15	5692	140	589	7	0	5654	1603	160	46	43453
	15.2%	28.8%	3.2%	126.7%	12.5%	4.3%	1.9%	85.7%	0.0%	-9.9%	11.6%	3.1%	-189.1%	14.5%
10/81	31933	20149	264	100	6899	140	600	19	0	5142	2455	170	-91	67781
10/80	34424	22302	245	27	6375	157	670	18	0	5792	2202	257	309	72778
	-7.2%	-9.7%	7.8%	270.4%	8.2%	-10.8%	-10.4%	5.6%	0.0%	-11.2%	11.5%	-33.9%	-129.4%	-6.9%
11/81	45791	11837	189	56	7280	0	600	28	0	5342	3290	11412	-80	85745
11/80	47634	13193	204	72	6239	154	535	30	0	5233	3189	12230	-166	88547
	-3.9%	-10.3%	-7.4%	-22.2%	16.7%	-100.0%	12.1%	-6.7%	0.0%	2.1%	3.2%	-6.7%	51.8%	-3.2%
12/81	63984	16996	147	58	7528	124	620	44	0	5343	4327	17240	-35	116376
12/80	62925	23542	158	85	6709	158	617	40	0	5276	4140	13714	109	117473
	1.7%	-27.8%	-7.0%	-31.8%	12.2%	-21.5%	0.5%	10.0%	0.0%	1.3%	4.5%	25.7%	-132.1%	-0.9%
1/82	76575	22851	106	77	7532	140	605	48	0	5267	4630	16844	-25	134650
1/81	76835	28123	102	150	6748	135	656	50	0	5183	4388	16803	226	139399
	-0.3%	-18.7%	3.9%	-48.7%	11.6%	3.7%	-7.8%	-4.0%	0.0%	1.6%	5.5%	0.2%	-111.1%	-3.4%
2/82	62773	24765	120	84	6801	127	555	39	0	5264	4876	10675	55	115634
2/81	60298	22211	132	93	5924	124	574	38	0	4512	4045	10140	-61	108030
	4.1%	11.5%	-9.1%	-9.7%	14.8%	2.4%	-3.3%	2.6%	0.0%	16.7%	8.2%	5.3%	190.2%	7.0%
3/82	53325	19582	183	93	7525	150	610	35	0	5206	3970	9645	30	100934
3/81	52170	20720	175	79	6368	150	622	32	0	4991	3752	9186	-250	98145
	2.8%	-5.5%	4.6%	17.7%	18.2%	0.0%	-1.9%	9.4%	0.0%	5.9%	5.8%	5.6%	112.0%	2.8%
4/82	38944	24486	242	75	6743	150	600	22	0	5161	3187	585	10	80205
4/81	30305	22264	227	48	5841	136	570	14	0	5254	2711	674	-178	67946
	28.2%	10.0%	6.6%	56.3%	15.4%	10.3%	5.3%	57.1%	0.0%	-1.8%	17.6%	-13.2%	105.6%	18.0%
5/82	27355	19653	264	55	6675	150	620	14	0	5131	2273	230	-10	62410
5/81	27604	17894	241	36	6092	137	614	13	0	4868	2003	425	64	59991
	-0.9%	9.8%	9.5%	52.8%	9.6%	9.5%	1.0%	7.7%	0.0%	5.4%	13.5%	-45.9%	-115.6%	4.0%
SUMMER TOTAL														
	178924	118916	1707	285	45511	986	4260	93	0	36186	14634	1650	-142	403011
	160034	105545	1733	142	41320	1025	4064	71	0	38676	13130	1964	99	367803
	11.8%	12.7%	-1.5%	100.7%	10.1%	-3.8%	4.8%	31.0%	0.0%	-6.4%	11.5%	-16.0%	-243.4%	9.6%
WINTER TOTAL														
	302948	96031	745	368	36666	541	2990	194	0	26502	20593	65816	-55	553339
	300062	107789	771	479	31980	721	3004	190	0	25195	19514	62023	-142	551594
	1.0%	-10.9%	-3.4%	-23.2%	14.6%	-25.0%	-0.5%	2.1%	0.0%	5.2%	5.5%	6.1%	61.3%	0.3%
YEAR TOTAL														
	481872	214947	2452	653	82177	1527	7250	287	0	62688	35227	67466	-197	956350
	460096	213334	2504	621	73308	1746	7068	261	0	63871	32644	63907	-43	919397
	4.7%	0.8%	-2.1%	5.2%	12.1%	-12.5%	2.6%	10.0%	0.0%	-1.9%	7.9%	5.4%	-358.1%	4.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

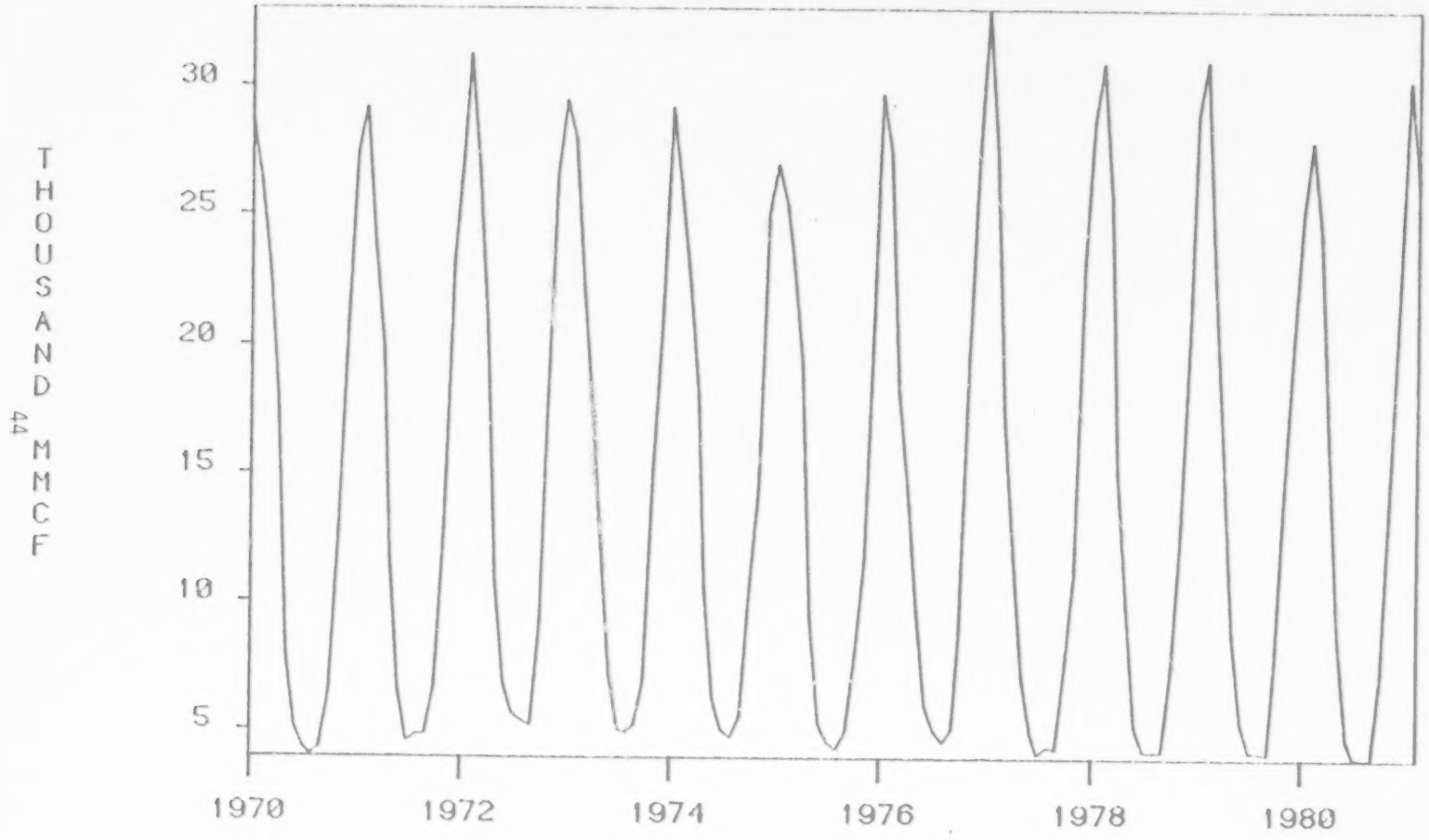
(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

FIGURE 11 MONTHLY OHIO RESIDENTIAL NATURAL GAS CONSUMPTION
JANUARY 1970 - FEBRUARY 1981



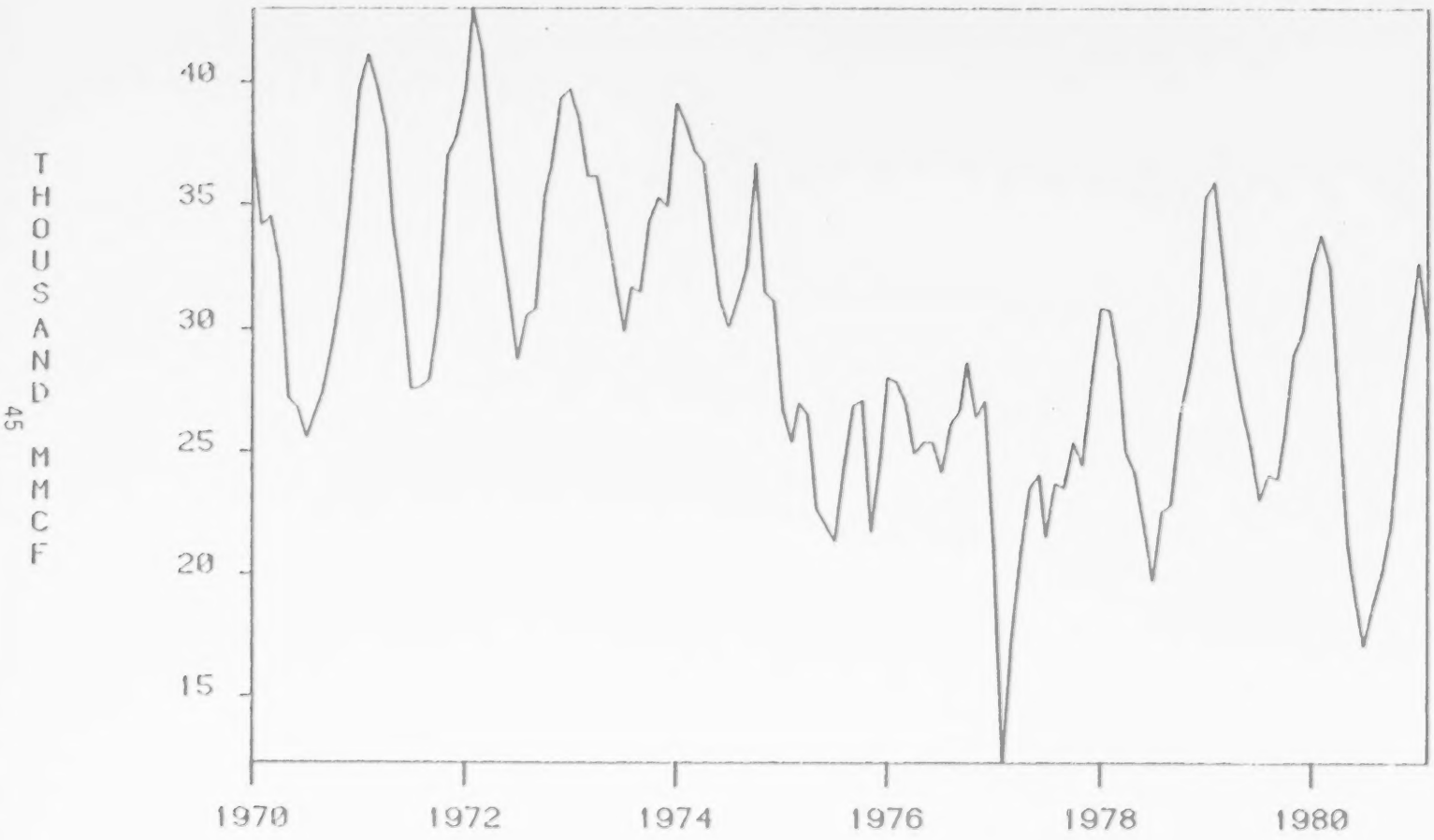
SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 12 MONTHLY OHIO COMMERCIAL NATURAL GAS CONSUMPTION
JANUARY 1970 - FEBRUARY 1981



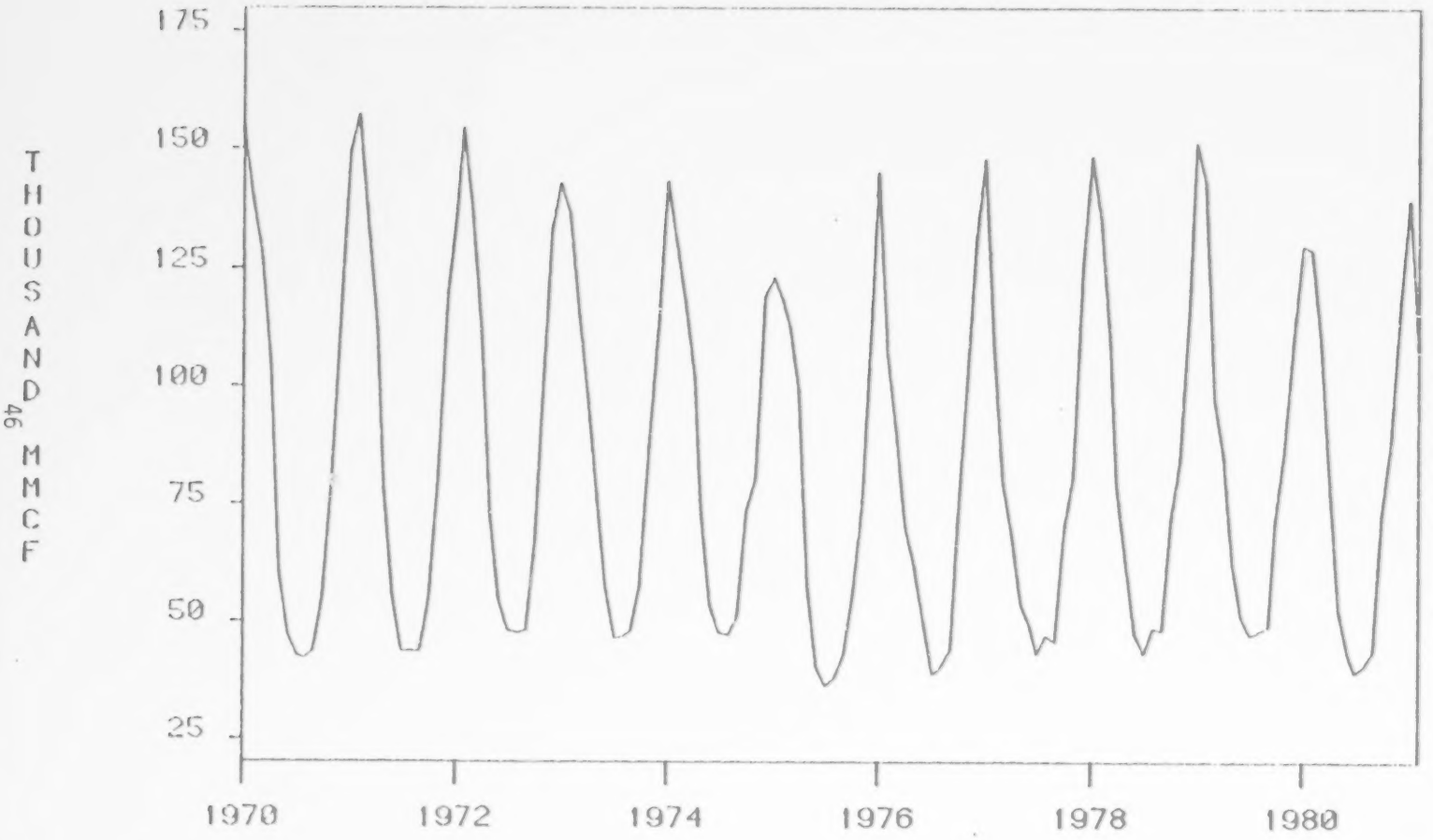
SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 13 MONTHLY OHIO INDUSTRIAL NATURAL GAS CONSUMPTION
JANUARY 1970 - FEBRUARY 1981



SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 14. MONTHLY OHIO TOTAL NATURAL GAS CONSUMPTION
JANUARY 1970 - FEBRUARY 1981



SOURCE: OHIO DEPARTMENT OF ENERGY

cooling season. The contrast between the natural gas consumption levels during the heating as opposed to the non-heating seasons has increased over the past two years. The effects of curtailments enforced on the industrial sector during the 1976-77 heating season is dramatically shown in Figure 13.

Since natural gas is the primary source of space heating for the residential and commercial sectors, over 60 percent of the natural gas consumed in Ohio is used during the heating season. Table 11 shows the actual aggregate monthly requirements for the eight major utilities, between June 1980 and May 1981, along with the utilities' consolidated projections for the forth- coming twelve months. Figure 15 is a graphic representation of the utilities' consolidated sectoral projections for the forthcoming twelve months.

Actual levels of sectoral requirements within individual utility service areas, for the past two years, are presented in Appendix B, Tables B-9 through B-16.

Historical Behavior of Annual Sectoral Requirements

In Figures 16-21 we have presented the annual sectoral natural gas consumption patterns observed in Ohio between 1960 and 1980. In Figure 22 we have indicated the relative shares of residential, commercial, industrial, and the combined electric utilities and transportation sectors in the Ohio total.

Quantitative analyses of the possible determinants of the consumption patterns observed in Figures 16-22 are continuing, in house, at the ODOE. Certain general comments can, nevertheless, be made at this time concerning the dramatic contrasts in the prevailing sectoral consumption trends in the sixties, as opposed to the corresponding trends in the seventies and the eighties.

Table 11. Comparison Between One Year of Actual and Forecast Demand for Eight Major Ohio Gas Utilities by Sector (MMCF)

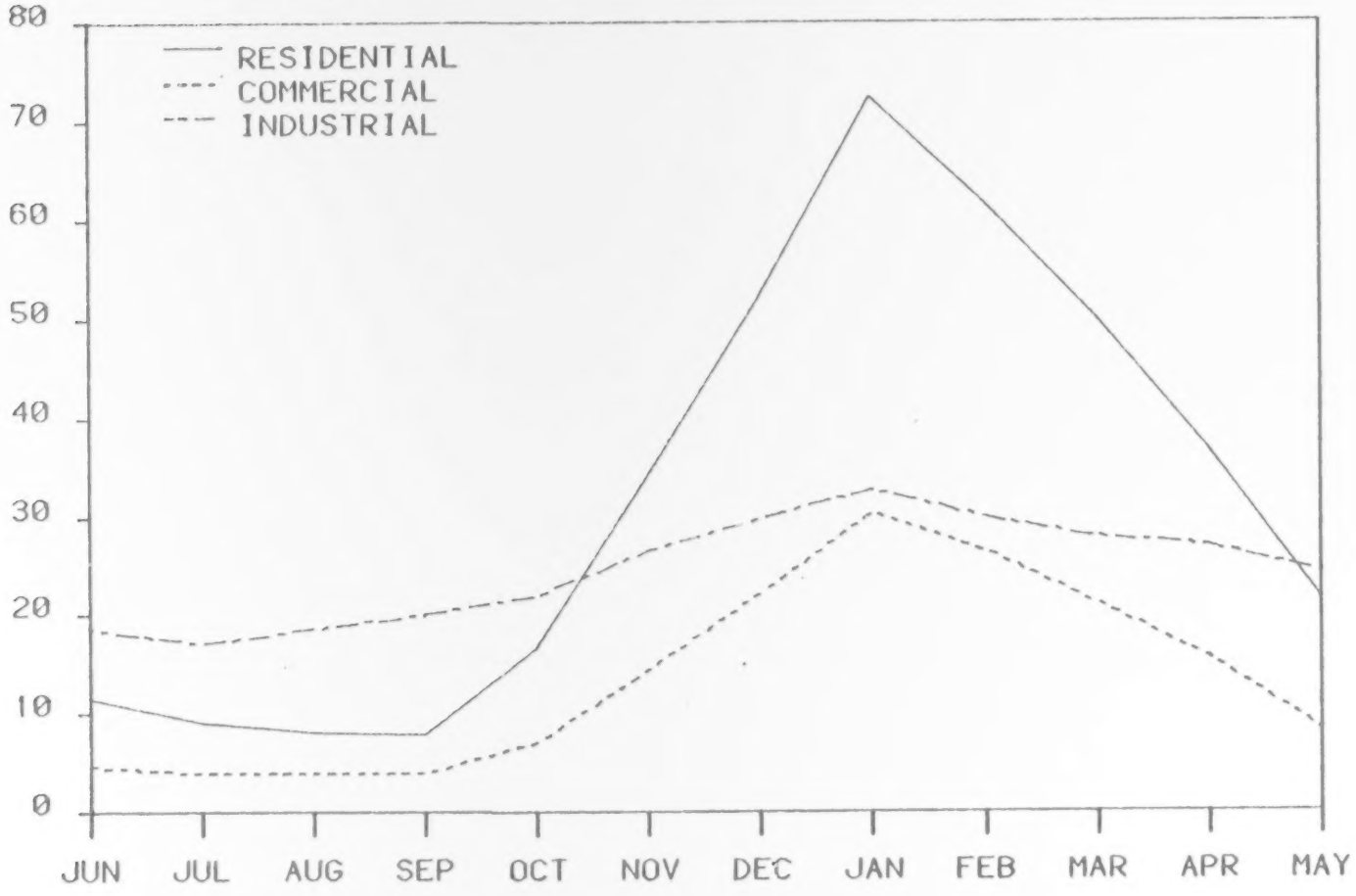
MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (INJ)	TOTAL REQUIREMENT	DEFICIENCY
6/81	30	12883	5424	25485	-2627	9902	51067	-603
6/80	29	11608	4711	18673	-1257	9692	43427	0
	3.4%	11.0%	15.1%	36.5%	-109.0%	2.2%	17.6%	999.9%
7/81	5	9024	4219	20712	169	9677	43301	-512
7/80	5	9145	4036	17120	145	9117	39563	0
	0.0%	-1.3%	4.5%	21.0%	16.6%	6.1%	10.7%	999.9%
8/81	11	8745	4098	22824	1730	8992	46389	-480
8/80	11	8181	3892	18712	1099	8761	40645	0
	0.0%	6.9%	5.3%	22.0%	57.4%	2.6%	14.1%	999.9%
9/81	87	9664	4429	23457	2822	8690	49062	-701
9/80	87	7932	3958	20022	3028	8513	43453	0
	0.0%	21.8%	11.9%	17.2%	-6.8%	2.1%	12.9%	999.9%
10/81	334	16603	7101	25273	11017	7023	67017	-764
10/80	334	16794	7185	22027	17181	9591	72778	0
	0.0%	-1.1%	-1.2%	14.7%	-35.9%	-26.8%	-7.9%	999.9%
11/81	690	31868	13590	27159	11860	0	84485	-1260
11/80	686	33960	14548	26501	13483	55	88547	0
	0.6%	-6.2%	-6.5%	2.5%	-12.0%	-100.0%	-4.6%	999.9%
12/81	1052	52300	22708	29171	11528	0	115207	-1169
12/80	1028	52156	22197	29781	13322	17	117473	0
	2.3%	0.3%	0.0%	-2.0%	-13.5%	-100.0%	-1.9%	999.9%
1/82	1141	65475	27643	31661	7467	1326	133572	-1078
1/81	1124	72449	30341	32697	3907	5	139399	0
	1.5%	-9.6%	-8.9%	-3.2%	91.1%	26420.0%	-4.2%	999.9%
2/82	980	60991	25790	31716	-5308	1326	114515	-1119
2/81	977	61561	26455	29857	-6486	-3357	108030	0
	0.3%	-0.9%	-2.5%	6.2%	18.2%	139.5%	6.0%	999.9%
3/82	823	52424	22241	29787	-4979	0	99473	-1461
3/81	814	49886	21190	27930	-996	135	98145	0
	1.1%	5.1%	5.0%	6.6%	-399.9%	-100.0%	1.4%	999.9%
4/82	735	36780	15670	27041	-8714	8308	79085	-1120
4/81	455	30965	12834	24867	-6393	5673	67946	0
	61.5%	18.8%	22.1%	8.7%	-36.3%	46.4%	16.4%	999.9%
5/82	202	21187	9043	25118	-4230	10437	61555	-855
5/81	196	21548	8532	24330	-3992	9573	59991	0
	3.1%	-1.7%	6.0%	3.2%	-6.0%	9.0%	2.6%	999.9%
SUMMER TOTAL	1404	114886	49984	169910	167	63029	397976	-5035
	1117	106173	45148	145751	9811	60920	367803	0
	25.7%	8.2%	10.7%	16.6%	-98.3%	3.5%	8.2%	999.9%
WINTER TOTAL	4686	263058	111480	149494	20568	2652	547252	-6087
	4629	270012	114731	146766	23230	-3145	551594	0
	1.2%	-2.6%	-2.8%	1.9%	-11.5%	184.3%	-0.8%	999.9%
YEAR TOTAL	6090	377944	161464	319404	20735	65681	945228	-11122
	5746	376185	159879	292517	33041	57775	919397	0
	6.0%	0.5%	1.0%	9.2%	-37.2%	13.7%	2.8%	999.9%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

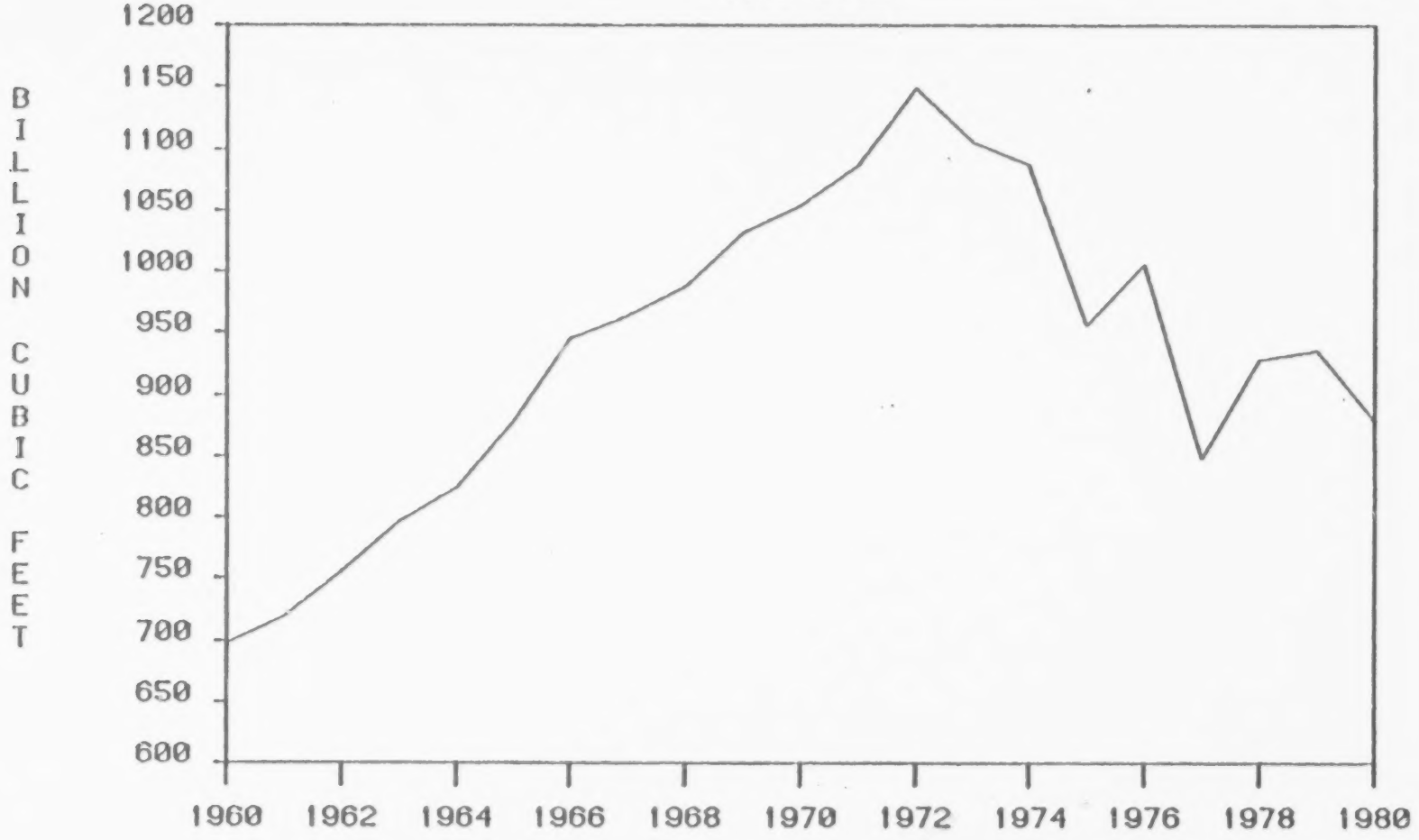
(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

FIGURE 15. PROJECTED GAS REQUIREMENTS FOR OHIO BY SECTOR
EIGHT MAJOR COMPANIES (JUNE 1980 - MAY 1981)



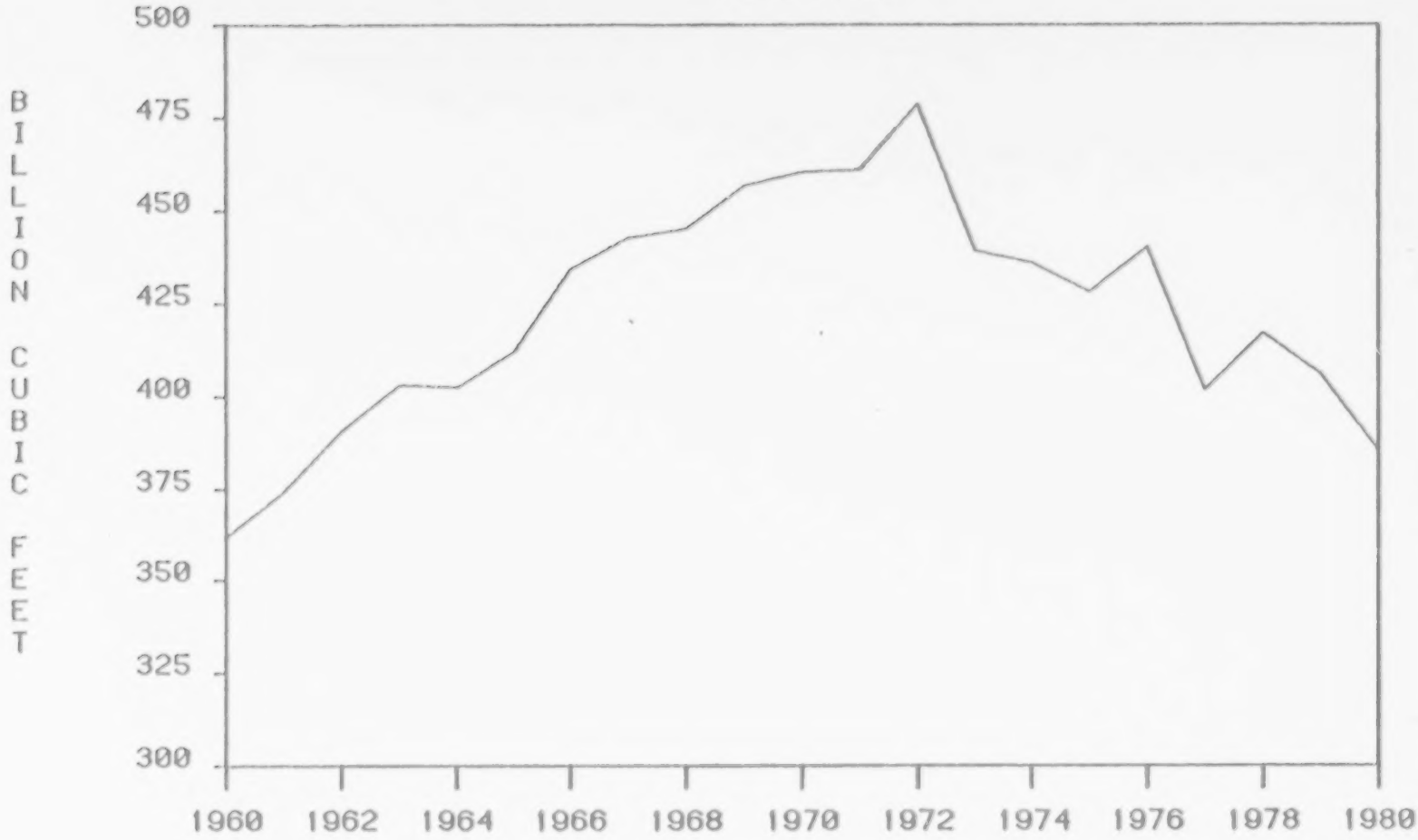
SOURCE: MONTHLY PROJECTIONS OF EIGHT MAJOR GAS UTILITIES AND THE OHIO DEPARTMENT OF ENERGY

FIGURE 16. OHIO TOTAL NATURAL GAS CONSUMPTION
1960-1980



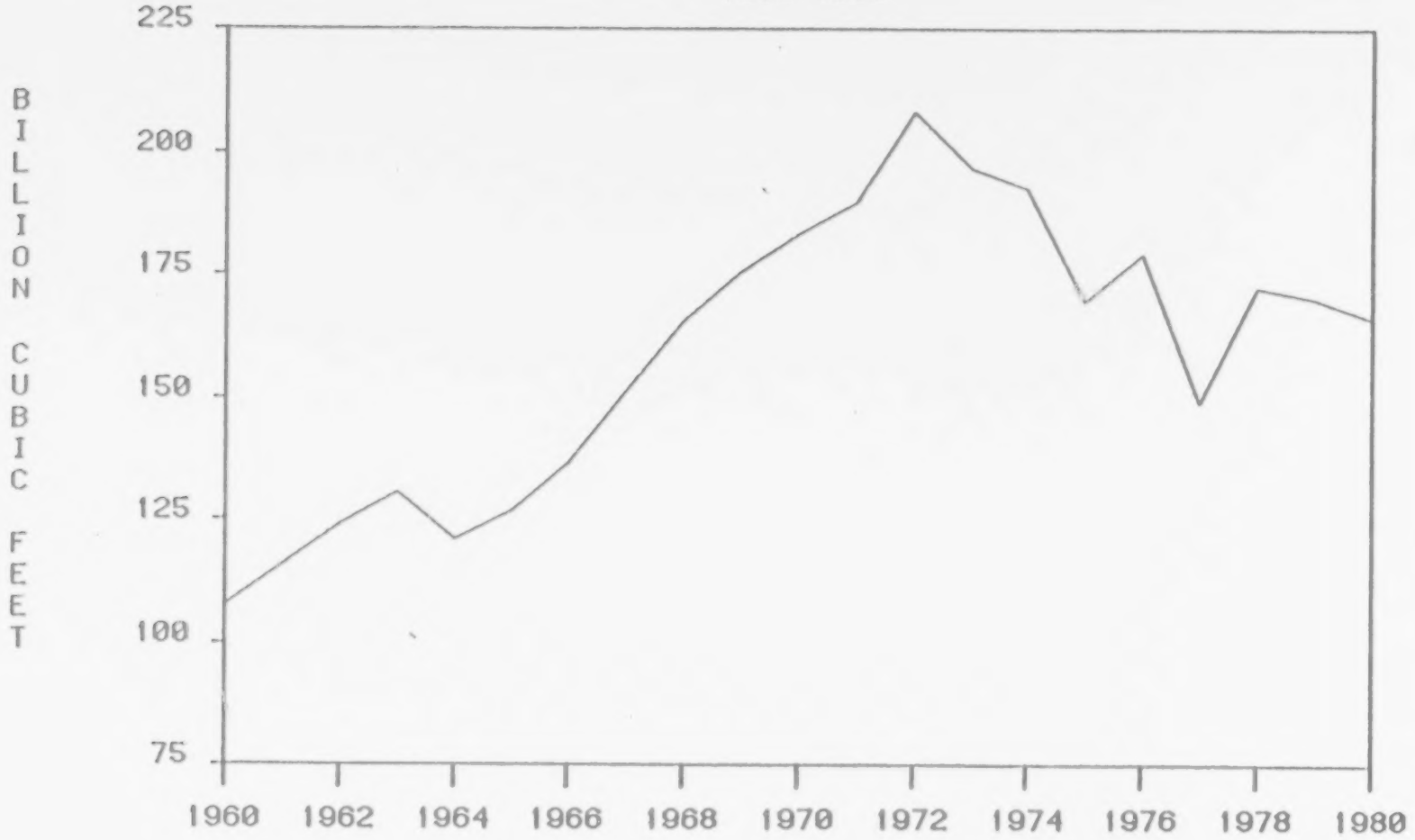
SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 17. OHIO RESIDENTIAL NATURAL GAS CONSUMPTION
1960-1980



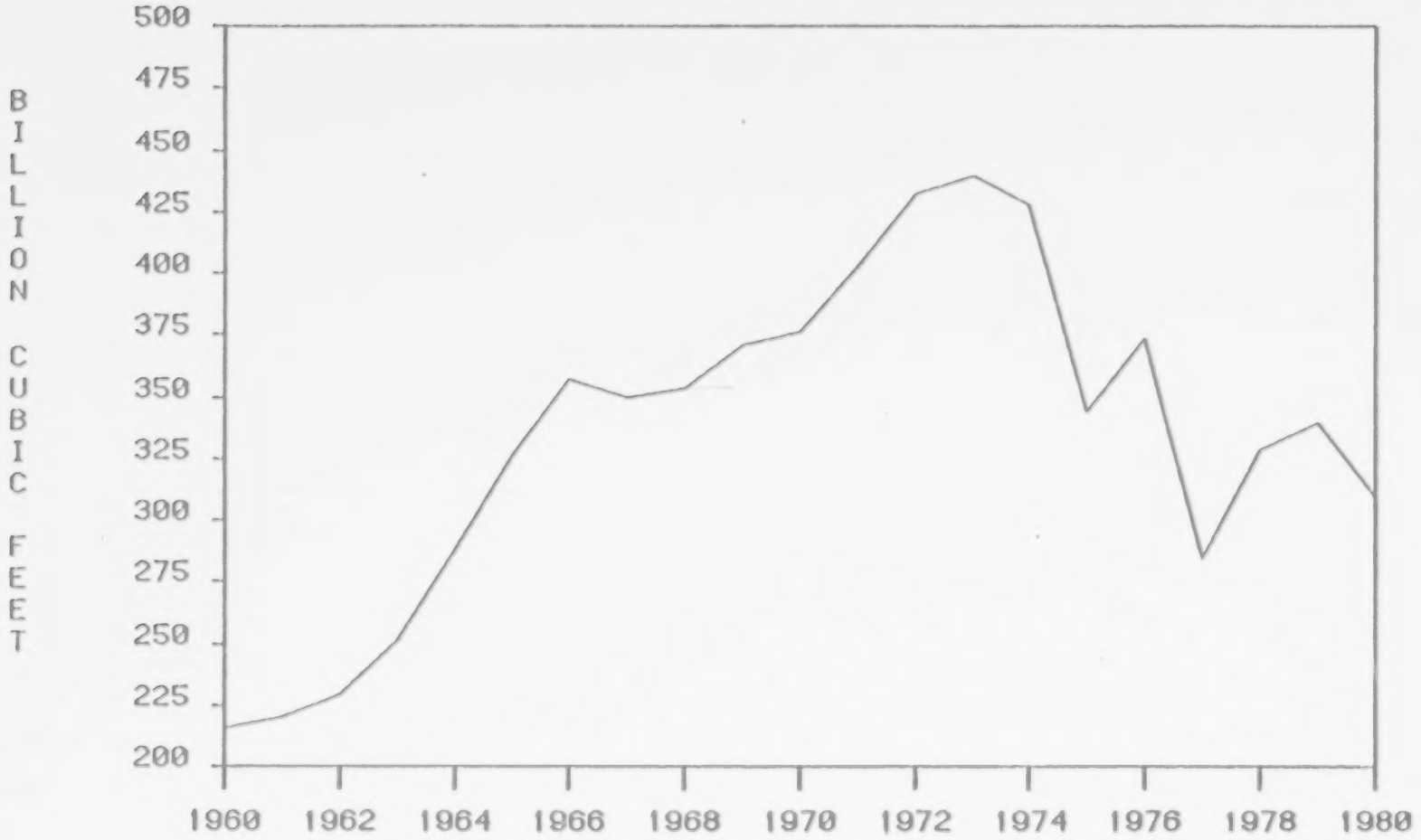
SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 18. OHIO COMMERCIAL NATURAL GAS CONSUMPTION
1960-1980



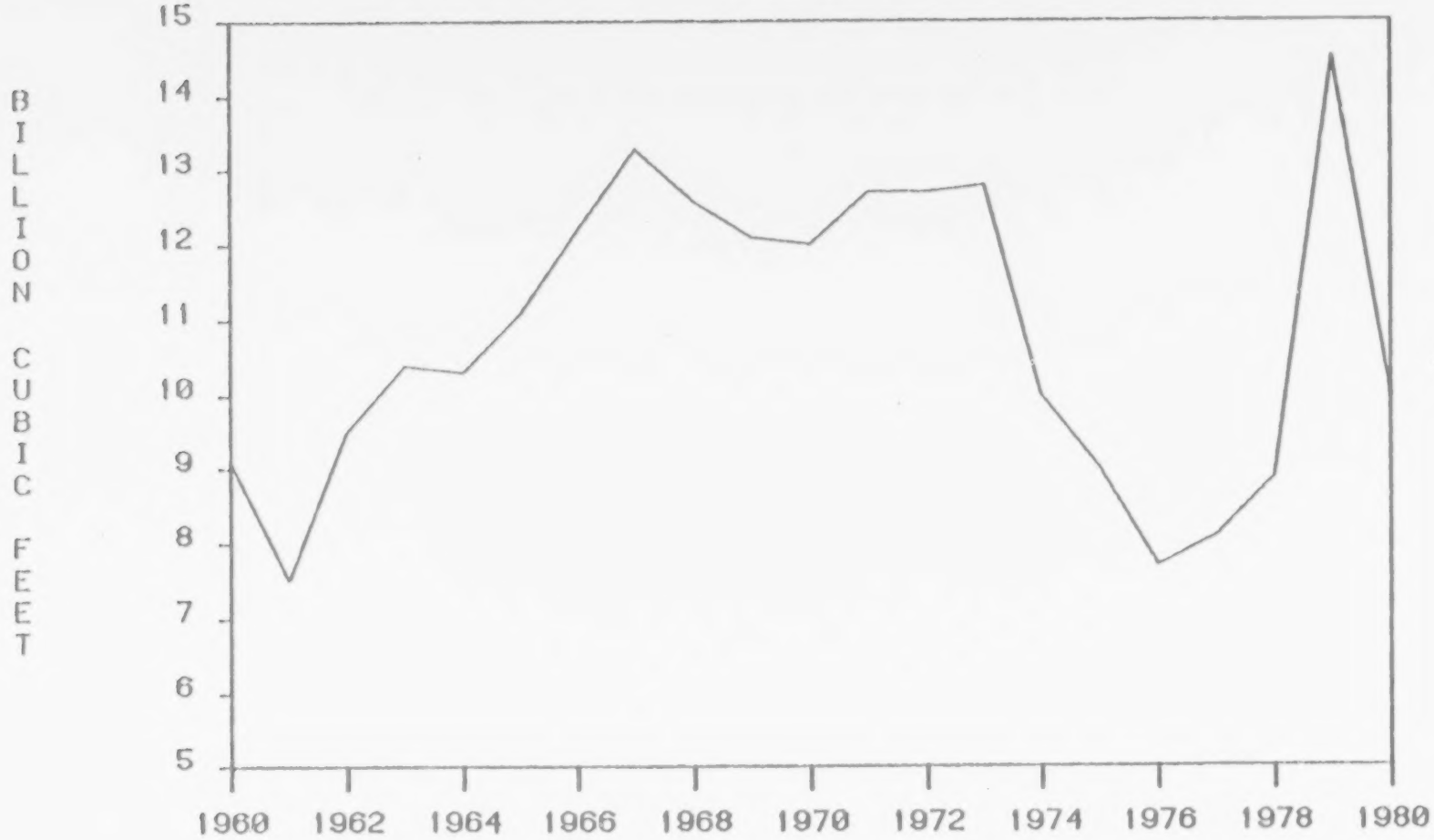
SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 19. OHIO INDUSTRIAL NATURAL GAS CONSUMPTION
1960-1980



SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 20. OHIO TRANSPORTATION NATURAL GAS CONSUMPTION
1960-1980

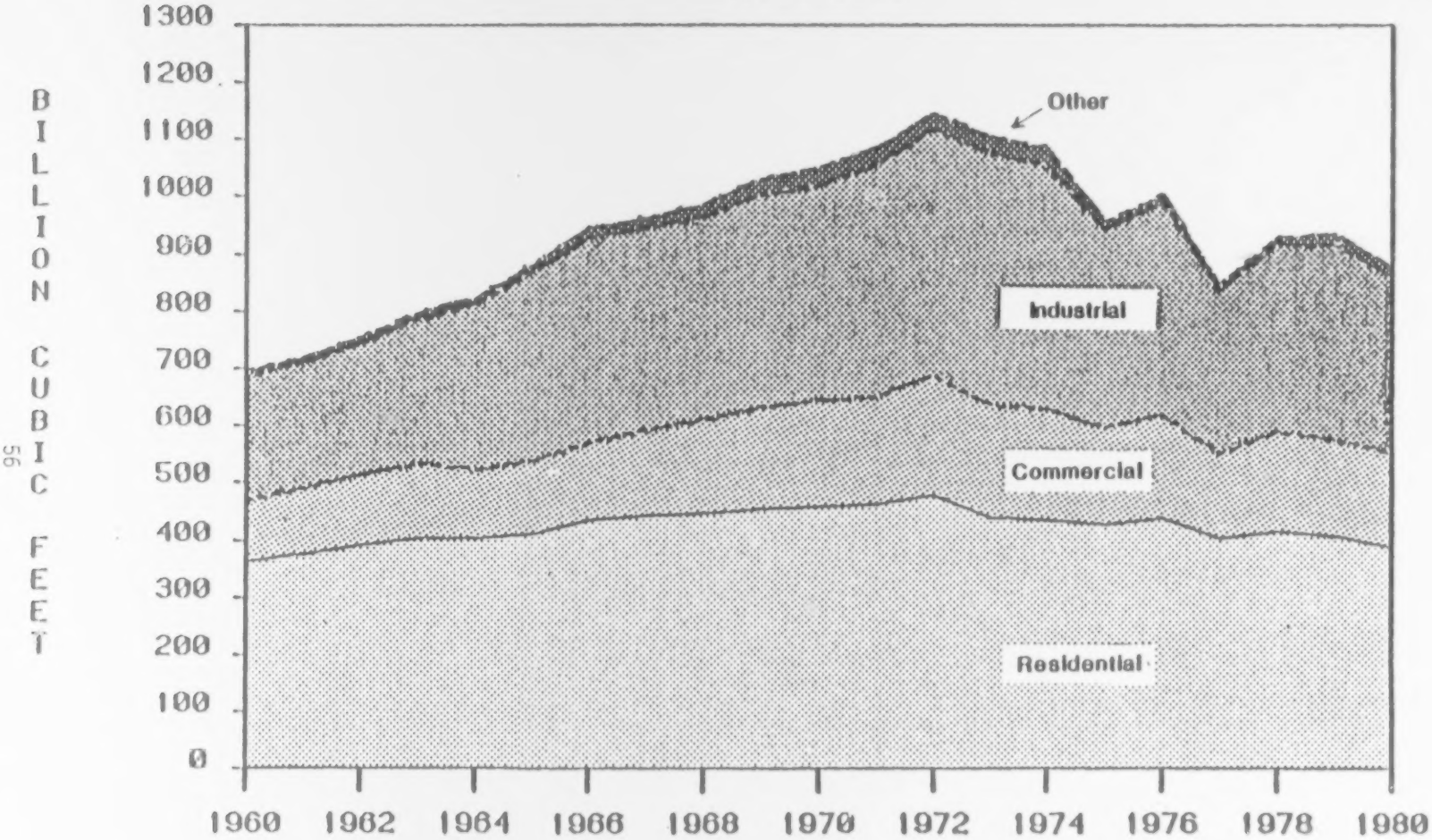


SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 21. OHIO ELECTRIC UTILITY NATURAL GAS CONSUMPTION
1960-1980

SOURCE: OHIO DEPARTMENT OF ENERGY

FIGURE 22. OHIO NATURAL GAS CONSUMPTION BY SECTOR
1960-1980



NOTE: "OTHER" INCLUDES TRANSPORTATION AND ELECTRIC UTILITY CONSUMPTION

SOURCE: OHIO DEPARTMENT OF ENERGY

With the breakdown of the Bretton Woods International Monetary System in 1971, which eventually led to a one hundred percent depreciation in the U.S. dollar, and the OPEC price hikes of 1973, which permanently altered the structure of costs and expenditures in all sectors of the economy, there grew a gap between the opportunity cost of natural gas as determined in international, or interstate trade, and the federally regulated wellhead price for interstate commerce. As a result of this discrepancy, supplies of natural gas for interstate commerce continuously declined between 1973 and 1977.

Consequently, states such as Ohio, which depend on interstate natural gas as their major source of supply, suffered from natural gas shortages during this period in the sense that, at the prevailing price of natural gas, supplies were not sufficient to satisfy all prospective customers. In anticipation of this situation Ohio natural gas utilities applied for and were granted a ban on new customer hookups in 1972. This ban stayed in effect until the passage of the Natural Gas Policy Act of 1978.

Historical Behavior of Industrial Requirements

As a result of the reduction in aforementioned interstate supplies, base allocations of lower priority industrial and commercial customers were curtailed between 1973-1977, which led to extensive conservation in the industrial sector, and to fuel switching.

It was hoped that with the passage of the Natural Gas Policy Act of 1978, which decontrolled some natural gas prices immediately, and which foresees the decontrol of all natural gas prices by 1985, availability of natural gas supplies to Ohio customers in general, and to Ohio industrial customers, in particular, would be enhanced. Since the ban on new customer hookups has been lifted from all Ohio utilities, there is no

question that the "unavailability" of supplies is not the reason why industrial requirements have declined in 1980. Rather, in contradistinction with the sixties, the severe recessions of 1974-75, and 1980-81 have, also, taken their toll in reducing the level of economic activity in general, and the industrial consumption of natural gas, in particular.

It is anticipated that as the economy recovers from the current recession, natural gas will still be a preferred fuel for industrial consumption, as long as its price per Btu is competitive with the per Btu price of heating oil.

Historical Behaviors of Residential and Commercial Requirements

Although no new customer hookups were allowed between 1972 and 1978-79, the number of residential customers in Ohio has remained the same, for all practical purposes, during this period. However, the weather sensitivity of residential consumption during the same period of time, measured in terms of the change in the monthly volume of residential requirements in MMCF per degree day change per month, has been declining in the service areas of the four major Ohio natural gas utilities, as presented in Table 12. This fact is a clear reflection of the effectiveness of residential conservation measures implemented in Ohio, by ODOE and others.

There is no doubt that the major incentive for conservation in all sectors of the economy is the fact that the increases in energy costs between 1972 and 1980, eight-fold in the cost of imported oil and four-fold in Ohio natural gas prices, as indicated in Table 19, have been far ahead of any increases in real per capita income. So much so that maintenance of discretionary expenditures on non-energy items has

Table 12. Weather Sensitivity of Residential Natural Gas Consumption in Ohio (1970-1980)

MMCF/Per Heating Degree-Day

Year	Cincinnati Gas and Electric	Columbia Gas	Dayton Power and Light	East Ohio Gas
1970	6.43	21.64	5.69	22.95
1971	6.96	24.04	6.04	23.57
1972	6.95	23.61	5.77	24.22
1973	6.78	23.68	5.72	23.04
1974	6.76	23.35	5.58	24.21
1975	6.83	22.73	5.61	24.34
1976	6.34	21.22	5.04	22.52
1977	5.15	18.95	4.79	20.44
1978	5.11	18.00	4.54	19.74
1979	5.10	18.48	4.53	20.68
1980	4.77	17.91	4.28	19.26

Source: O.S.U. Gas Model, monthly reports of four Ohio gas utilities and the Ohio Department of Energy.

required severe reductions in the levels of energy consumption by residential, commercial, and industrial customers, in the U.S. in general, and in Ohio, in particular.

The Ohio Department of Energy has been instrumental in increasing the awareness of the public opinion in Ohio about the availability, and implementation of efficient, feasible, and practical conservation measures. ODOE's leadership in providing prudent programs and services aimed to reduce the information and implementation costs to individual customers of the above mentioned types of conservation measures is one reason why conservation efforts in all sectors of Ohio have been much more successful then the national average throughout 1980. We expect 1981 to be an even better year than 1980 in terms of translating the public's need to conserve into effectual conservation.

In view of these considerations, dramatic changes in the behaviors of residential and commercial natural gas requirements are not expected in the near future merely because natural gas supplies have become more abundant. We expect residential and commercial requirements to stabilize around their 1978 or 1979 levels as the economy recovers from the current recession. Major climatic changes, such as a repeat of the winter of 1976, may create temporary increases in residential or commercial demands; but unless, and until, the share of energy expenditures in household budgets are reduced back to 1972 levels through dramatic increases in real per capita incomes, the attainment of 1972 levels of natural gas consumption does not seem to be a likely possibility in the near future.

Alternate Fuel Capability Profile

There were no natural gas curtailments in the June 1980 - May 1981 annual period, and neither the reporting Ohio gas utilities nor the gas pipeline companies projected any curtailments for the June 1981 - May 1982 period. Hence, there is no alternate fuel capability profile to be presented at this time.

Twelve - Month Outlook

On the basis of projected natural gas supplies, and the historically established trends in natural gas requirements, the outlook for the next twelve months indicates no shortages under normal or 10 percent colder than normal weather conditions.

Utility Forecasts

Utility forecasts for the next twelve months project no deficiencies for Ohio under normal or 10 percent colder than normal weather conditions. Aggregate supply and demand projections of the eight major utilities, as presented in Table 13 and Figure 23, indicate a 1.2 percent annual surplus of natural gas supplies over demand. All eight utilities project supply to be in excess of demand during the 1981-82 heating season. Supply and demand projections of the individual utilities, as submitted in their "Monthly Reports of Supply and Demand of Natural Gas", are summarized in Appendix B, Table B-17.

Independent Forecast

The law which created the Ohio Department of Energy requires the development of independent ODOE forecasting capability within the department and the preparation of independent forecasts. Independent natural gas demand forecasts based on two alternate methodologies have been developed by ODOE for the eight major gas utilities serving Ohio.

The first methodology employs regression analysis to forecast demand for each major utility as a function of the normal and 10 percent colder than normal temperature scenarios on the basis of the most recent ODOE Form SG-2's submitted by the respective utilities. The second methodology employed by the ODOE to forecast natural gas demand in each major utility service area is based upon Box-Jenkins type time series models of monthly natural gas requirements of the respective utilities between January 1970 and May 1981. Such models when properly identified yield projections that possess desirable statistical properties and are deemed to be as accurate as, or more accurate than, alternative short-term forecasting techniques. They also have the added flexibility of yielding updated forecasts every time the most recent actual monthly requirements are reported to ODOE. The use of alternative methodologies is expected to provide a double check and reduce forecasting error, and thus, lead to a more accurate and decisive diagnosis of impending shortages.

The results obtained on the basis of both methodologies are presented in Tables 14 through 18. It can be concluded from these tables that no shortages or curtailments of natural gas are expected during the 1981-82 heating season.

Table 13. Projected Aggregate Supply and Demand for Natural Gas for Eight Major Gas Utilities
June 1981 - May 1982
(MMCF)

Month/Year	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	Summer Totals	Winter Totals	Annual Totals
Supply	51,670	44,313	46,869	49,763	67,781	85,745	116,376	134,650	115,634	100,934	80,205	62,410	403,011	553,339	956,350
Demand	51,067	43,801	46,389	49,062	67,017	84,485	115,207	133,572	114,515	99,473	79,085	61,555	397,976	547,252	945,228
Deficiency	-603	-512	-480	-701	-764	-1,260	-1,169	-1,078	-1,119	-1,461	-1,120	-855	-5,035	-6,087	-11,121
Percent Deficiency	-1.2	-1.2	-1.0	-1.4	-1.1	-1.5	-1.0	-0.8	-1.0	-1.4	-1.4	-1.4	-1.2	-1.1	-1.2

Note: A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: ODOE Form SG-1 of eight major gas utilities and the Ohio Department of Energy.

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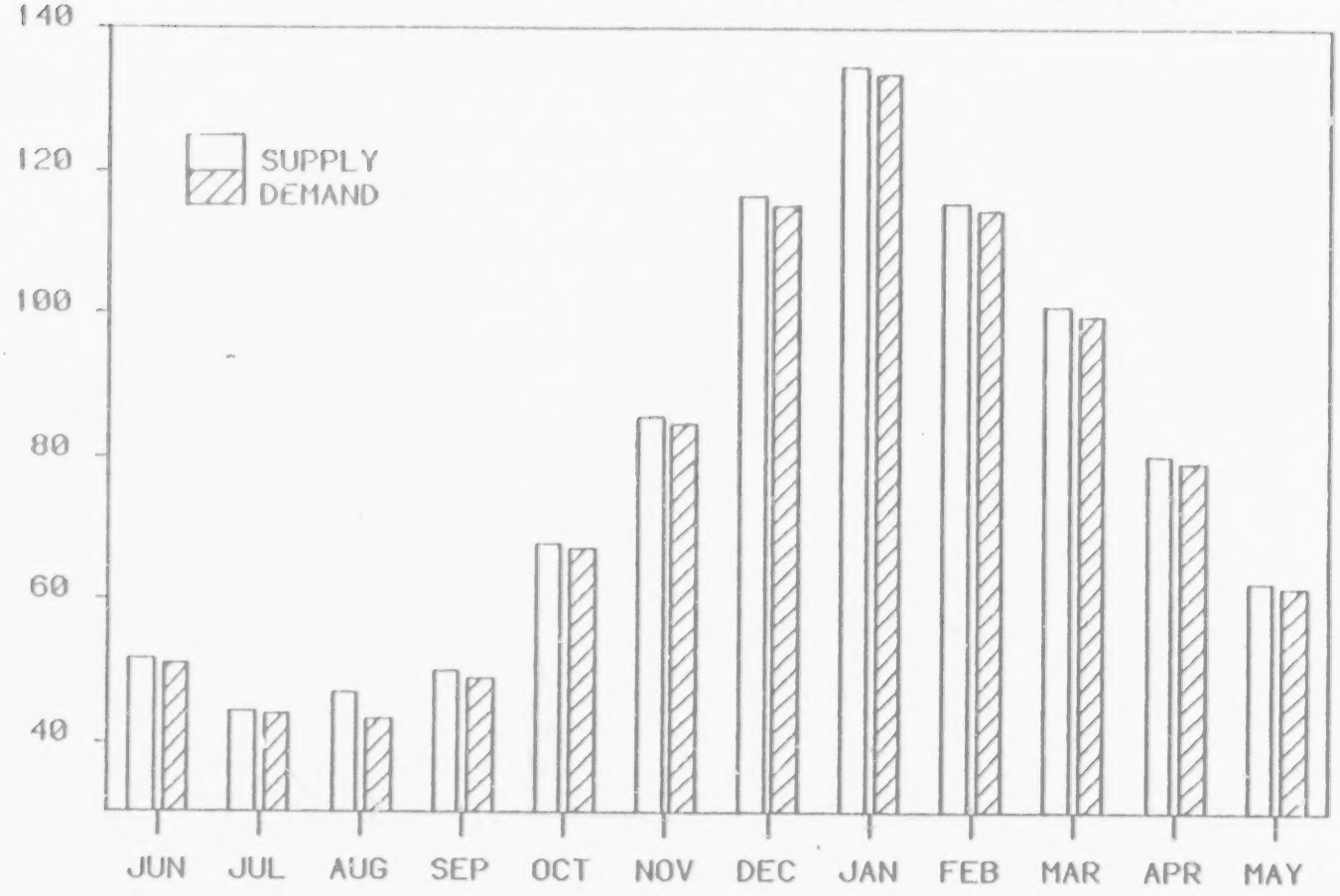
FIG. 23. PROJECTED SUPPLY AND DEMAND OF NATURAL GAS FOR OHIO EIGHT MAJOR COMPANIES (JUNE 1981 - MAY 1982)



SOURCE: MONTHLY PROJECTIONS OF EIGHT MAJOR GAS UTILITIES AND THE OHIO DEPARTMENT OF ENERGY

Table 14. Independent Forecasts of Natural Gas Supply and Demand for the Eight Major Ohio Gas Utilities November 1981 - March 1982 (MMCF)

	Normal Weather			10% Colder Than Normal			10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	Demand	Deficiency	Supply	Demand	Deficiency	Supply	Demand	Deficiency
Cincinnati Gas & Electric	57,699	56,492	-1,207	61,414	60,667	-747	61,414	60,924	-490
Columbia Gas	218,134	202,863	-15,271	230,923	216,369	-14,554	230,923	219,373	-11,550
Dayton Power & Light	38,279	38,650	371	41,309	41,707	398	41,309	43,122	1,813
East Ohio Gas	207,988	208,764	776	219,741	219,658	-83	219,741	225,541	5,800
National Gas	7,075	5,625	-1,450	7,075	5,802	-1,273	7,075	5,802	-1,273
Ohio Gas	9,755	4,789	-4,966	9,755	5,144	-4,611	9,755	5,144	-4,611
River Gas	2,948	2,948	0	3,305	3,305	0	3,305	3,305	0
West Ohio Gas	9,252	9,252	0	9,915	9,915	0	9,915	9,915	0
Total	551,130	529,383	-21,747	583,237	562,367	-20,870	583,237	572,926	-10,311

Source: July 1, 1981, ODOE Form SG-2 of reporting utilities, and the Ohio Department of Energy.

Table 15. Independent Forecasts of Gas Supply and Demand for Cincinnati Gas and Electric Company November 1981 - March 1982 (MMCF)

	Normal Weather				10% Colder Than Normal Weather				10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	HDD	Demand	Deficiency	Supply	HDD	Demand	Deficiency	Supply	Demand	Deficiency
November 1981	9,393	636	9,172	-221	9,950	700	9,798	-152	9,950	8,930	-1,020
December 1981	12,990	970	12,439	-551	13,834	1,067	13,387	-447	13,834	12,992	-842
January 1982	13,289	1,051	13,231	-58	14,203	1,156	14,258	55	14,203	15,370	1,167
February 1982	11,564	888	11,637	73	12,338	977	12,507	169	12,338	12,829	491
March 1982	10,463	722	10,013	-450	11,089	794	10,717	-372	11,089	10,803	-286
Total	57,699		56,492	-1,207	61,414		60,667	-747	61,414	60,924	-490

Notes: Totals may not add due to independent rounding.
HDD - Heating Degree-Days.
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: Cincinnati Gas & Electric's July 1, 1981, ODOE Form SG-2, and the Ohio Department of Energy.

Table 16. Independent Forecasts of Gas Supply
and Demand for Columbia Gas of Ohio
November 1981 - March 1982
(MMCF)

	Normal Weather				10% Colder Than Normal Weather				10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	HDD	Demand	Deficiency	Supply	HDD	Demand	Deficiency	Supply	Demand	Deficiency
November 1981	33,415	570	29,881	-3,534	34,831	627	31,515	-3,316	34,831	33,788	-1,043
December 1981	46,320	951	40,808	-5,512	48,820	1,046	43,532	-5,288	48,820	45,481	-3,339
January 1982	54,204	1,173	47,175	-7,029	57,388	1,290	50,530	-6,858	57,388	54,134	-3,254
February 1982	44,774	1,102	45,138	364	47,846	1,212	48,293	447	47,846	46,962	-884
March 1982	39,421	918	39,861	440	42,038	1,010	42,499	461	42,038	39,008	-3,030
Total	218,134		202,863	-15,271	230,923		216,369	-14,554	230,923	219,373	-11,550

Notes: Totals may not add due to independent rounding.
HDD - Heating Degree-Days.
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: Columbia Gas of Ohio's July 1, 1981, ODOE Form SG-2, and the
Ohio Department of Energy.

Table 17. Independent Forecasts of Gas Supply and Demand for Dayton Power and Light November 1981 - March 1982 (MMCF)

	Normal Weather				10% Colder Than Normal Weather				10% Colder Than Normal Weather Supply vs Time Series Projections of Demand		
	Supply	HDD	Demand	Deficiency	Supply	HDD	Demand	Deficiency	Supply	Demand	Deficiency
November 1981	5,386	482	4,934	-452	5,713	530	5,263	-450	5,713	5,847	134
December 1981	7,839	865	7,565	-274	8,431	952	8,163	-268	8,431	8,415	-16
January 1982	8,898	1,111	9,255	357	9,654	1,222	10,018	364	9,654	10,880	1,226
February 1982	9,200	1,135	9,420	220	9,976	1,249	10,203	227	9,976	10,332	356
March 1982	6,956	852	7,476	520	7,535	937	8,060	525	7,535	7,648	113
Total	38,279		38,650	371	41,309		41,707	398	41,309	43,122	1,813

Notes: Totals may not add due to independent rounding.
HDD - Heating Degree-Days.
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: Dayton Power and Light's July 1, 1981, ODOE Form SG-2, and the Ohio Department of Energy.

Table 18. Independent Forecasts of Gas Supply and Demand for East Ohio Gas November 1981 - March 1982 (MMCF)

	Normal Weather				10% Colder Than Normal Weather				10% Colder Than Normal Weather Supply vs. Time Series Projections of Demand		
	Supply	HDD	Demand	Deficiency	Supply	HDD	Demand	Deficiency	Supply	Demand	Deficiency
November 1981	32,697	534	32,438	-259	34,390	587	33,593	-797	34,390	35,405	1,015
December 1981	43,735	983	42,231	-1,504	46,352	1,081	44,368	-1,984	46,352	48,226	1,874
January 1982	48,849	1,197	46,898	-1,951	51,731	1,317	49,515	-2,216	51,731	55,790	4,059
February 1982	44,157	1,155	45,599	1,442	46,609	1,271	48,512	1,903	46,609	46,946	337
March 1982	38,550	954	41,598	3,048	40,659	1,049	43,670	3,011	40,659	39,174	-1,485
Total	207,988		208,764	776	219,741		219,658	83	219,741	225,541	5,800

Notes: Totals may not add due to independent rounding.
HDD - Heating Degree-Days.
A positive deficiency indicates a shortage; a negative deficiency indicates a surplus.

Source: East Ohio Gas Company's July 1, 1981, ODOE Form SG-2, and the Ohio Department of Energy.

Table 19. Ohio Natural Gas Prices in Current Dollars, 1970-1980
($ Per MMBtu)

Year	Residential	Commercial	Industrial
1970	0.84	0.73	0.52
1971	0.96	0.81	0.56
1972	1.02	0.86	0.62
1973	1.08	0.94	0.65
1974	1.23	1.07	0.85
1975	1.51	1.35	1.12
1976	1.79	1.63	1.43
1977	2.23	2.07	1.95
1978	2.43	2.24	2.05
1979	2.78	2.57	2.32
1980[1]	4.23	3.50	3.06

Note: [1]1980 figures represent the first three quarters of 1980 for the east north central region of the United States.

Source: American Gas Association's Gas Facts.

Table 20. Ohio Natural Gas Prices in Constant Dollars, 1970-1980
(Dollars per MMBtu)
(1972 = 100)

Year	Residential	Commercial	Industrial
1970	0.92	0.80	0.57
1971	1.00	0.84	0.58
1972	1.02	0.86	0.62
1973	1.02	0.89	0.61
1974	1.06	0.92	0.73
1975	1.19	1.06	0.88
1976	1.34	1.22	1.07
1977	1.57	1.46	1.38
1978	1.60	1.47	1.35
1979	1.68	1.55	1.40
1980	2.38	1.97	1.72

Note: All prices are stated in terms of 1972 dollars. Unadjusted figures for 1980 represent the first three quarters of 1980 for the east north central region of the United States.

Source: Gas Facts, the American Gas Association; Statistical Abstract of the United States 1980, U.S. Department of Commerce.

APPENDIX A

FORECASTING OF ELECTRICITY DEMAND BY UTILITY

Table A-1. Allegheny Power System:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	2,483	2,623	5.6	2,547	2.6
August	2,614	2,725	4.3	2,677	2.4
September	2,453	2,607	6.3	2,514	2.5
October	2,605	2,717	4.3	2,674	2.7
November	2,674	2,709	1.3	2,700	1.0
December	2,947	3,022	2.6	2,947	0.0
January	3,205	3,226	0.7	3,159	-1.4
February	2,759	2,992	8.5	2,847	3.2
March	2,936	2,970	1.2	2,896	-1.4
April	2,483	2,698	8.7	2,580	3.9
May	2,498	2,703	8.2	2,568	2.8
June		2,603		2,499	

*Source of demand figures is FPC Form 12E-2 and Form ERA-119M. June actual figure not available.

Table A-2. American Electric Power*:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	6,091	6,230	2.3	5,813	-4.6
August	6,229	6,543	5.0	6,098	-2.1
September	5,745	6,147	7.0	5,635	-1.9
October	6,056	6,289	3.9	5,929	-2.1
November	6,368	6,552	2.9	6,172	-3.8
December	6,894	7,388	7.2	6,738	-2.3
January	7,470	8,162	9.3	7,272	-2.7
February	6,498	7,416	14.1	6,561	1.0
March	6,719	7,289	8.5	6,550	-2.5
April	5,550	6,495	17.0	5,734	3.3
May	5,628	6,401	13.7	5,600	-0.5
June		6,265		5,579	

*Does not include Columbus and Southern Ohio Electric Company. June actual figure not available.
**Source of demand figures is FPC Form 12E-2, and Form ERA-119M.

Table A-3. Cincinnati Gas and Electric:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	1,526	1,475	-3.4	1,485	-2.7
August	1,547	1,490	-3.7	1,502	-2.9
September	1,263	1,246	-1.4	1,282	1.5
October	1,179	1,205	2.2	1,221	3.6
November	1,209	1,249	3.3	1,243	2.8
December	1,369	1,438	5.0	1,380	0.8
January	1,463	1,559	6.6	1,479	1.1
February	1,264	1,360	7.6	1,326	4.9
March	1,290	1,313	1.8	1,320	2.3
April	1,119	1,200	7.2	1,171	4.7
May	1,169	1,276	9.2	1,217	4.1
June		1,362		1,319	

*Source of demand figures is FPC Form 12E-2. June actual figure unavailable.

Table A-4. Cleveland Electric Illuminating:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	1,563	1,661	6.3	1,679	7.4
August	1,633	1,668	2.2	1,703	4.3
September	1,486	1,586	6.7	1,593	7.2
October	1,527	1,615	5.8	1,617	5.9
November	1,507	1,542	2.3	1,593	5.7
December	1,615	1,685	4.3	1,671	3.5
January	1,719	1,756	2.2	1,745	1.5
February	1,553	1,544	-0.6	1,611	3.7
March	1,645	1,691	2.8	1,695	3.0
April	1,507	1,550	2.9	1,584	5.1
May	1,543	1,630	5.6	1,627	5.5
June	1,637	1,685	2.9	1,673	2.2

*Source of demand figures is FPC Form 12, Schedule 14, Column 9.

Table A-5. Columbus and Southern Ohio Electric:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	920	944	2.6	922	0.2
August	772	964	24.9	807	4.5
September	748	874	16.9	792	5.9
October	773	814	5.3	810	4.8
November	871	839	-3.7	895	2.8
December	951	963	1.3	964	1.4
January	825	1,046	26.8	862	4.5
February	829	929	12.1	857	3.4
March	707	896	26.7	758	7.2
April	729	831	14.0	779	6.9
May	822	805	-2.1	834	1.6
June		862		937	

*Source of demand figure is FPC Form 12E-2. June actual figure unavailable.

Table A-6. Dayton Power and Light:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	959	965	0.6	926	-3.4
August	972	940	-3.3	957	-1.6
September	846	837	-1.1	836	-1.2
October	855	883	3.3	853	-0.2
November	871	911	4.6	874	0.4
December	974	1,031	5.9	961	-1.3
January	1,059	1,088	2.7	1,046	-1.2
February	923	1,004	8.8	950	2.9
March	955	970	1.6	953	-0.2
April	805	861	7.0	811	0.8
May	803	857	6.7	786	-2.1
June		906		802	

*Source of demand figures is FPC Form 12E-2. June actual figure unavailable.

Table A-7. Ohio Edison System:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	1,998	2,124	6.3	2,021	1.2
August	2,088	2,155	3.2	2,085	-0.2
September	1,899	1,977	4.1	1,956	3.0
October	1,998	2,050	2.6	2,021	1.2
November	1,998	2,074	3.8	2,005	0.4
December	2,182	2,158	-1.1	2,139	-2.0
January	2,265	2,373	4.8	2,233	-1.4
February	2,016	2,047	1.5	2,031	0.8
March	2,163	2,164	0.1	2,117	-2.1
April	1,914	2,051	7.2	1,956	2.2
May	1,922	2,000	4.1	1,981	3.1
June		2,178		1,999	

*Source of demand figures is FPC Form 12E-2. June actual figure unavailable.

Table A-8. Ohio Valley Electric Corporation:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-81)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)
July	500	1419	183.8
August	500	1363	172.6
September	483	1307	170.6
October	596	1383	132.1
November	577	1417	145.6
December	596	1468	146.3
January	596	1429	139.8
February	539	1259	133.6
March	594	1424	139.7
April	576	1373	138.4
May	596	1448	143.0
June	578	1357	134.8

*Source of demand figures is FPC Form 12E-2 and Form ERA-119M.

Table A-9. Toledo Edison Company:
Forecast of Electric Energy Demand
(1000 MWH)

	Actual Demand* (1980-1981)	Utility Forecast (1981-1982)	Forecast % Change (Utility Forecast vs. Actual)	ODOE Forecast (1981-1982)	Forecast % Change (ODOE Forecast vs.Actual)
July	643	683	6.2	638	-0.8
August	680	702	3.2	665	-2.2
September	604	670	10.9	605	0.2
October	650	667	2.6	642	-1.2
November	640	678	5.9	637	-0.5
December	700	727	3.9	670	-4.3
January	741	776	4.7	728	-1.8
February	652	766	17.5	657	0.8
March	668	768	15.0	670	0.3
April	572	693	21.2	592	3.5
May	591	664	12.4	600	1.5
June	612	689	12.6	614	0.3

*Source of demand figures is FPC Form 12E-2.

Table A-10. Forecast of Ohio Electricity Demand - Residential Sector
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1981-1982)	Upper 95% Confidence Limit	Actual (1980-1981)	Forecast Percentage Change
July	1,989	2,317	2,646	2,387	-2.9
August	2,217	2,567	2,917	2,711	-5.3
September	2,071	2,442	2,812	2,561	-4.7
October	1,590	1,980	2,370	2,013	-1.6
November	1,765	2,174	2,582	2,193	-0.9
December	2,249	2,676	3,103	2,699	-0.9
January	2,792	3,236	3,680	3,334	-2.9
February	2,593	3,053	3,513	2,963	3.0
March	2,223	2,700	3,176	2,603	3.7
April	1,855	2,346	2,837	2,180	7.6
May	1,550	2,056	2,563	1,986	3.5
June	1,573	2,136	2,699		

Notes: 1. The forecast is based on the monthly comparative summary statistics of the Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).

2. Forecast by ODOE.

Table A-11. Forecast of Ohio Electricity Demand - Commercial Sector
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1981-1982)	Upper 95% Confidence Limit	Actual (1980-1981)	Forecast Percentage Change
July	1,730	1,860	1,991	1,830	1.6
August	1,808	1,951	2,094	1,946	0.3
September	1,757	1,912	2,066	1,907	0.3
October	1,496	1,662	1,827	1,618	2.7
November	1,469	1,645	1,821	1,579	4.2
December	1,593	1,778	1,963	1,721	3.3
January	1,729	1,924	2,118	1,903	1.1
February	1,688	1,891	2,094	1,793	5.5
March	1,554	1,765	1,977	1,700	3.8
April	1,457	1,677	1,897	1,594	5.2
May	1,394	1,622	1,850	1,565	3.7
June	1,524	1,771	2,019		

Notes: 1. The forecast is based on the monthly comparative summary statistics of the Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).

2. Forecast by ODOE.

Table A-12. Forecast of Ohio Electricity Demand - Industrial Sector
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1981-1982)	Upper 95% Confidence Limit	Actual (1980-1981)	Forecast Percentage Change
July	3,468	3,758	4,047	3,476	8.1
August	3,538	3,893	4,247	3,621	7.5
September	3,519	3,928	4,337	3,806	3.2
October	3,535	3,993	4,451	3,910	2.1
November	3,415	3,916	4,417	3,824	2.4
December	3,303	3,845	4,386	3,919	-1.9
January	3,316	3,896	4,474	3,861	0.9
February	3,255	3,869	4,483	3,953	-2.1
March	3,360	4,007	4,654	4,048	-1.0
April	3,274	3,953	4,632	3,927	0.7
May	3,271	3,980	4,689	3,930	1.3
June	3,208	3,950	4,692		

Notes: 1. The forecast is based on the monthly comparative summary statistics of the Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).

2. Forecast by ODOE.

Table A-13. Forecast of Ohio Electricity Demand - All Sectors
(1000 MWH)

Month	Lower 95% Confidence Limit	Forecast (1981-1982)	Upper 95% Confidence Limit	Actual (1980-1981)	Forecast Percentage Change
July	7,707	8,094	8,681	8,171	-1.0
August	7,777	8,496	9,216	8,765	-3.1
September	7,562	8,392	9,223	8,757	-4.2
October	6,949	7,878	8,806	8,007	-1.6
November	6,907	7,925	8,942	8,066	-1.7
December	7,398	8,497	9,596	8,845	-3.9
January	8,038	9,213	1,039	9,606	-4.1
February	7,790	9,036	1,028	9,211	-1.9
March	7,389	8,702	1,002	8,858	-1.8
April	6,663	8,040	9,418	8,122	-1.0
May	6,404	7,843	9,282	7,872	-0.4
June	6,194	7,741	9,288		

Notes: 1. The forecast is based on the monthly comparative summary statistics of the Ohio Electric Utilities Institute for eight major investor-owned electric utilities (excluding OVEC).

2. Forecast by ODOE.

APPENDIX B

FORECAST OF NATURAL GAS DEMAND BY UTILITY

Table B-1. Comparison Between Two Years of Actual Gas Supply for Cincinnati Gas and Electric Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	2165	0	259	0	0	0	0	6	0	41	306	0	0	2777
6/79	3035	0	200	0	0	0	0	8	0	189	306	0	0	3738
	-28.7%	0.0%	29.5%	0.0%	0.0%	0.0%	0.0%	-25.0%	0.0%	-78.3%	0.0%	0.0%	0.0%	-25.7%
7/80	2129	0	258	0	0	0	0	6	0	72	294	0	0	2759
7/79	2799	0	245	0	0	0	0	8	0	195	294	0	0	3541
	-23.9%	0.0%	5.3%	0.0%	0.0%	0.0%	0.0%	-25.0%	0.0%	-63.1%	0.0%	0.0%	0.0%	-22.1%
8/80	2592	0	256	0	0	0	0	7	0	49	294	0	0	3198
8/79	2959	0	0	0	0	0	0	8	0	212	294	0	0	3473
	-12.4%	0.0%	999.9%	0.0%	0.0%	0.0%	0.0%	-12.5%	0.0%	-76.9%	0.0%	0.0%	0.0%	-7.9%
9/80	2803	0	247	0	0	0	0	7	0	90	293	0	0	3440
9/79	2713	0	209	0	0	0	0	9	0	154	214	0	0	3299
	3.3%	0.0%	18.2%	0.0%	0.0%	0.0%	0.0%	-22.2%	0.0%	-41.6%	36.9%	0.0%	0.0%	4.3%
10/80	5850	0	245	0	0	0	0	18	0	62	391	0	0	6566
10/79	5628	0	161	0	0	0	0	17	0	206	338	0	0	6350
	3.9%	0.0%	52.2%	0.0%	0.0%	0.0%	0.0%	5.9%	0.0%	-69.9%	15.7%	0.0%	0.0%	3.4%
11/80	8722	0	204	0	0	0	0	30	0	48	644	0	0	9648
11/79	7963	0	194	0	0	0	0	28	0	181	557	0	0	8923
	9.5%	0.0%	5.2%	0.0%	0.0%	0.0%	0.0%	7.1%	0.0%	-73.5%	15.6%	0.0%	0.0%	8.1%
12/80	11740	0	158	0	0	0	0	40	0	50	057	1	0	12046
12/79	10608	0	90	0	0	0	0	37	0	190	742	1	0	11668
	10.7%	0.0%	75.6%	0.0%	0.0%	0.0%	0.0%	8.1%	0.0%	-73.7%	15.5%	0.0%	0.0%	10.1%
1/81	13904	0	102	0	0	0	0	50	0	74	907	47	0	15164
1/80	12411	0	104	0	0	0	0	43	0	197	784	3	0	13542
	12.7%	0.0%	-1.9%	0.0%	0.0%	0.0%	0.0%	16.3%	0.0%	-62.4%	15.7%	1466.7%	0.0%	12.0%
2/81	10454	0	132	0	0	0	0	38	0	118	868	42	0	11652
2/80	12578	0	92	0	0	0	0	45	0	213	751	2	0	13681
	-16.9%	0.0%	43.5%	0.0%	0.0%	0.0%	0.0%	-15.6%	0.0%	-44.6%	15.6%	2000.0%	0.0%	-14.8%
3/81	9244	0	175	0	0	0	0	32	0	97	770	0	0	10326
3/80	10029	0	151	0	0	0	0	35	0	207	673	6	0	11101
	-7.8%	0.0%	15.9%	0.0%	0.0%	0.0%	0.0%	-8.6%	0.0%	-53.1%	15.6%	-100.0%	0.0%	-7.0%
4/81	4603	0	227	0	0	0	0	14	0	96	521	0	0	5461
4/80	5598	0	226	0	0	0	0	19	0	238	521	0	0	6602
	-17.8%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	-26.3%	0.0%	-59.7%	0.0%	0.0%	0.0%	-17.3%
5/81	4042	0	241	0	0	0	0	13	0	51	333	0	0	5400
5/80	2567	0	238	0	0	0	0	9	0	140	387	0	0	3341
	80.6%	0.0%	1.3%	0.0%	0.0%	0.0%	0.0%	44.4%	0.0%	-63.6%	-14.0%	0.0%	0.0%	64.0%
SUMMER TOTAL														
	24904	0	1733	0	0	0	0	71	0	461	2432	0	0	29601
	25299	0	1279	0	0	0	0	78	0	1334	2354	0	0	30344
	-1.2%	0.0%	35.5%	0.0%	0.0%	0.0%	0.0%	-9.0%	0.0%	-65.4%	3.3%	0.0%	0.0%	-2.2%
WINTER TOTAL														
	54144	0	771	0	0	0	0	190	0	387	4054	90	0	59636
	53589	0	631	0	0	0	0	188	0	988	3507	12	0	58915
	1.0%	0.0%	22.2%	0.0%	0.0%	0.0%	0.0%	1.1%	0.0%	-60.8%	15.6%	650.0%	0.0%	1.2%
YEAR TOTAL														
	79128	0	2504	0	0	0	0	261	0	848	6486	90	0	89317
	78888	0	1910	0	0	0	0	266	0	2322	5861	12	0	89259
	0.3%	0.0%	31.1%	0.0%	0.0%	0.0%	0.0%	-1.9%	0.0%	-63.5%	10.7%	650.0%	0.0%	0.1%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-2. Comparison Between Two Years of Actual Gas Supply for Columbia Gas of Ohio
(MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	LMLRG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	12209	0	0	0	0	0	0	0	0	506	1289	0	-34	13970
6/79	13792	0	0	0	0	0	0	0	0	558	1289	0	-217	15422
	-11.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-9.3%	0.0%	0.0%	84.3%	-9.4%
7/80	11122	0	0	0	0	0	0	0	0	481	1158	0	3	12764
7/79	12363	0	0	0	0	0	0	0	0	480	1158	0	300	14301
	-10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	-99.0%	-10.7%
8/80	12097	0	0	0	0	0	0	0	0	465	1174	0	37	13773
8/79	13418	0	0	0	0	0	0	0	0	513	1174	0	152	15257
	-9.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-9.4%	0.0%	0.0%	-75.7%	-9.7%
9/80	12694	0	0	0	0	0	0	0	0	356	1268	0	122	14440
9/79	14777	0	0	0	0	0	0	0	0	530	933	0	-158	16082
	-14.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-32.8%	35.9%	0.0%	177.2%	-10.2%
10/80	24575	0	0	0	0	0	0	0	0	263	1755	0	377	26970
10/79	22526	0	0	0	0	0	0	0	0	528	1514	0	-224	24344
	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-50.2%	15.9%	0.0%	268.3%	10.8%
11/80	31534	0	0	0	0	0	0	0	0	474	2449	0	-34	34423
11/79	30198	0	0	0	0	0	0	0	0	623	2114	0	-60	32875
	4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-23.9%	15.8%	0.0%	43.3%	4.7%
12/80	41847	0	0	0	0	0	0	0	0	240	3158	0	148	45393
12/79	37908	0	0	0	0	0	0	0	0	615	2725	0	142	41390
	10.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-61.0%	15.9%	0.0%	4.2%	9.7%
1/81	50008	0	0	0	0	0	0	0	0	276	3328	0	159	53771
1/80	45837	0	0	0	0	0	0	0	0	495	2872	0	99	49303
	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-44.2%	15.9%	0.0%	60.6%	9.1%
2/81	38883	0	0	0	0	0	0	0	0	64	3033	0	-109	41871
2/80	46193	0	0	0	0	0	0	0	0	562	2618	0	-131	49242
	-15.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-88.6%	15.9%	0.0%	16.8%	-15.0%
3/81	34619	0	0	0	0	0	0	0	0	134	2859	0	-225	37387
3/80	39486	0	0	0	0	0	0	0	0	396	2468	0	-44	42306
	-12.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-66.2%	15.8%	0.0%	-411.4%	-11.6%
4/81	20911	0	0	0	0	0	0	0	0	213	2102	0	193	23033
4/80	25296	0	0	0	0	0	0	0	0	437	2102	0	-85	27750
	-17.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-51.1%	0.0%	0.0%	-127.1%	-17.0%
5/81	18861	0	0	0	0	0	0	0	0	99	1373	0	80	20413
5/80	15528	0	0	0	0	0	0	0	0	469	1595	0	-99	17513
	21.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-79.8%	-13.9%	0.0%	180.8%	16.6%
SUMMER TOTAL														
	112469	0	0	0	0	0	0	0	0	2383	10119	0	392	125363
	117700	0	0	0	0	0	0	0	0	3535	9765	0	-331	130669
	-4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-32.6%	3.6%	0.0%	218.4%	-4.1%
WINTER TOTAL														
	196871	0	0	0	0	0	0	0	0	1188	14827	0	-61	212845
	199622	0	0	0	0	0	0	0	0	2691	12792	0	6	215116
	-1.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-55.9%	15.9%	0.0%	-1116.7%	-1.1%
YEAR TOTAL														
	309360	0	0	0	0	0	0	0	0	3571	24946	0	331	338208
	317322	0	0	0	0	0	0	0	0	6226	22562	0	-325	345785
	-2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-42.6%	10.6%	0.0%	201.8%	-2.2%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-3. Comparison Between Two Years of Actual Gas Supply for Dayton Power and Light Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLIDATED GAS	LAWRENCEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	ENERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	2374	0	0	0	3	0	0	0	0	0	0	0	0	2377
6/79	2789	0	0	0	3	0	0	0	0	0	191	0	0	2983
	-14.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	-20.3%
7/80	2136	0	0	0	3	0	0	0	0	0	0	0	0	2139
7/79	2164	0	0	0	3	0	0	0	0	0	147	0	0	2314
	-1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	-7.6%
8/80	1893	0	0	0	3	0	0	0	0	0	0	0	0	1896
8/79	2185	0	0	0	3	0	0	0	0	0	155	0	0	2343
	-13.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	-19.1%
9/80	1939	0	0	0	4	0	0	0	0	0	0	0	0	1943
9/79	2263	0	0	0	4	0	0	0	0	0	140	0	0	2407
	-14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	-19.3%
10/80	3036	0	0	0	8	0	0	0	0	0	0	0	0	3044
10/79	3654	0	0	0	7	0	0	0	0	0	0	0	0	3661
	-16.9%	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-16.9%
11/80	6044	0	0	0	14	0	0	0	0	0	0	0	0	6058
11/79	5634	0	0	0	14	0	0	0	0	0	384	0	0	6032
	7.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	0.4%
12/80	7597	0	0	0	18	0	0	0	0	0	0	0	0	7615
12/79	7099	0	0	0	17	0	0	0	6	0	544	0	0	7660
	7.0%	0.0%	0.0%	0.0%	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	-0.6%
1/81	10793	0	0	0	22	0	0	0	0	0	0	0	0	10815
1/80	7774	0	0	0	21	0	0	0	0	0	411	0	0	8206
	38.8%	0.0%	0.0%	0.0%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	26.7%
2/81	9316	0	0	0	17	0	0	0	0	0	0	0	0	9333
2/80	10702	0	0	0	20	0	0	0	0	0	0	0	0	10722
	-13.0%	0.0%	0.0%	0.0%	-15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-13.0%
3/81	7049	0	0	0	15	0	0	0	0	0	0	0	0	7064
3/80	8517	0	0	0	18	0	0	0	0	0	0	0	0	8535
	-17.2%	0.0%	0.0%	0.0%	-16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-17.2%
4/81	4132	0	0	0	6	0	0	0	0	0	0	0	0	4138
4/80	5860	0	0	0	10	0	0	0	0	0	0	0	0	5870
	-29.5%	0.0%	0.0%	0.0%	-40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-29.5%
5/81	3293	0	0	0	5	0	0	0	0	0	242	0	0	3540
5/80	3050	0	0	0	5	0	0	0	0	0	0	0	0	3055
	8.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	999.9%	0.0%	0.0%	15.9%
SUMMER TOTAL														
	10803	0	0	0	32	0	0	0	0	0	242	0	0	19077
	21965	0	0	0	35	0	0	0	0	0	633	0	0	22633
	-14.4%	0.0%	0.0%	0.0%	-8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	-61.8%	0.0%	0.0%	-15.7%
WINTER TOTAL														
	40799	0	0	0	86	0	0	0	0	0	0	0	0	40805
	39726	0	0	0	90	0	0	0	0	0	1539	0	0	41355
	2.7%	0.0%	0.0%	0.0%	-4.4%	0.0%	0.0%	0.0%	0.0%	0.0%	-100.0%	0.0%	0.0%	-1.1%
YEAR TOTAL														
	59602	0	0	0	118	0	0	0	0	0	242	0	0	59962
	61691	0	0	0	125	0	0	0	0	0	2172	0	0	63988
	-3.4%	0.0%	0.0%	0.0%	-5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	-88.9%	0.0%	0.0%	-6.3%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-4. Comparison Between Two Years of Actual Gas Supply for East Ohio Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	0	12569	0	0	5362	0	0	0	0	4270	0	140	0	22341
6/79	0	16314	0	0	5384	0	0	0	0	4743	0	148	0	26589
	0.0%	-23.0%	0.0%	0.0%	-0.4%	0.0%	0.0%	0.0%	0.0%	-10.0%	0.0%	-5.4%	0.0%	-16.0%
7/80	0	9290	0	0	5725	0	0	0	0	4830	0	153	0	19998
7/79	0	14833	0	0	5519	0	0	0	0	4287	0	150	0	24789
	0.0%	-37.4%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	12.7%	0.0%	2.0%	0.0%	-19.3%
8/80	0	9737	0	0	5715	0	0	0	0	4275	0	151	0	19578
8/79	0	14588	0	0	5565	0	0	0	0	4514	0	143	0	24810
	0.0%	-33.3%	0.0%	0.0%	2.7%	0.0%	0.0%	0.0%	0.0%	-5.3%	0.0%	5.6%	0.0%	-19.9%
9/80	0	11377	0	0	5497	0	0	0	0	4550	0	158	0	21582
9/79	0	14480	0	0	5361	0	0	0	0	5114	0	148	0	25103
	0.0%	-21.4%	0.0%	0.0%	2.5%	0.0%	0.0%	0.0%	0.0%	-11.0%	0.0%	6.8%	0.0%	-14.0%
10/80	0	22107	0	0	5813	0	0	0	0	4772	0	189	0	32881
10/79	0	23522	0	0	5655	0	0	0	0	4390	0	191	0	33758
	0.0%	-6.0%	0.0%	0.0%	2.8%	0.0%	0.0%	0.0%	0.0%	8.7%	0.0%	-1.0%	0.0%	-2.6%
11/80	0	12831	0	0	5605	0	0	0	0	3965	0	12117	0	34518
11/79	0	16191	0	0	5395	0	0	0	0	4805	0	7955	0	34346
	0.0%	-20.8%	0.0%	0.0%	3.9%	0.0%	0.0%	0.0%	0.0%	-17.5%	0.0%	52.3%	0.0%	0.5%
12/80	0	23026	0	0	5833	0	0	0	0	4338	0	13578	0	46775
12/79	0	15523	0	0	5603	0	0	0	0	4920	0	18419	0	44465
	0.0%	48.3%	0.0%	0.0%	4.1%	0.0%	0.0%	0.0%	0.0%	-11.8%	0.0%	-26.3%	0.0%	5.2%
1/81	0	27431	0	0	5816	0	0	0	0	4195	0	16390	0	53832
1/80	0	27304	0	0	5577	0	0	0	0	4950	0	15021	0	52852
	0.0%	0.5%	0.0%	0.0%	4.3%	0.0%	0.0%	0.0%	0.0%	-15.3%	0.0%	9.1%	0.0%	1.9%
2/81	0	21701	0	0	5185	0	0	0	0	3685	0	9756	0	40327
2/80	0	30233	0	0	5367	0	0	0	0	3253	0	10437	0	49290
	0.0%	-28.2%	0.0%	0.0%	-3.4%	0.0%	0.0%	0.0%	0.0%	13.3%	0.0%	-6.5%	0.0%	-18.2%
3/81	0	20285	0	0	5735	0	0	0	0	4106	0	8770	0	38096
3/80	0	23793	0	0	5722	0	0	0	0	4321	0	7082	0	42918
	0.0%	-14.7%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	-5.0%	0.0%	-3.4%	0.0%	-9.4%
4/81	0	22109	0	0	5451	0	0	0	0	4274	0	488	0	32322
4/80	0	25845	0	0	5477	0	0	0	0	4410	0	380	0	36112
	0.0%	-14.5%	0.0%	0.0%	-0.5%	0.0%	0.0%	0.0%	0.0%	-3.1%	0.0%	28.4%	0.0%	-10.5%
5/81	0	17792	0	0	5793	0	0	0	0	4074	0	337	0	27996
5/80	0	16000	0	0	5589	0	0	0	0	4503	0	281	0	26373
	0.0%	11.2%	0.0%	0.0%	3.7%	0.0%	0.0%	0.0%	0.0%	-9.5%	0.0%	19.9%	0.0%	6.2%
SUMMER TOTAL														
	0	104981	0	0	39356	0	0	0	0	31045	0	1616	0	176998
	0	125582	0	0	38550	0	0	0	0	31961	0	1441	0	197534
	0.0%	-16.4%	0.0%	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	-2.9%	0.0%	12.1%	0.0%	-10.4%
WINTER TOTAL														
	0	105274	0	0	28174	0	0	0	0	20289	0	60611	0	214348
	0	113044	0	0	27664	0	0	0	0	22249	0	66914	0	229871
	0.0%	-6.9%	0.0%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	-8.8%	0.0%	-0.5%	0.0%	-4.3%
YEAR TOTAL														
	0	210255	0	0	67530	0	0	0	0	51334	0	62227	0	391346
	0	238626	0	0	66214	0	0	0	0	54210	0	62355	0	421405
	0.0%	-11.9%	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	-5.3%	0.0%	-0.2%	0.0%	-7.1%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-5. Comparison Between Two Years of Actual Gas Supply for National Gas and Oil Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	0	0	0	0	0	149	546	0	0	513	0	2	-98	1112
6/79	0	0	0	0	0	116	542	0	0	387	0	5	-20	1030
	0.0%	0.0%	0.0%	0.0%	0.0%	28.4%	0.7%	0.0%	0.0%	32.6%	0.0%	60.0%	-390.0%	8.0%
7/80	0	0	0	0	0	153	606	0	0	473	0	0	-58	1174
7/79	0	0	0	0	0	112	572	0	0	417	0	9	-21	1089
	0.0%	0.0%	0.0%	0.0%	0.0%	36.6%	5.9%	0.0%	0.0%	13.4%	0.0%	-100.0%	-176.2%	7.8%
8/80	0	0	0	0	0	153	469	0	0	519	0	2	-32	1111
8/79	0	0	0	0	0	125	654	0	0	473	0	4	16	1240
	0.0%	0.0%	0.0%	0.0%	0.0%	22.4%	-28.3%	0.0%	0.0%	9.7%	0.0%	-50.0%	-100.0%	-10.4%
9/80	0	0	0	0	0	140	589	0	0	508	0	2	-86	1153
9/79	0	0	0	0	0	110	595	0	0	507	0	1	-49	1164
	0.0%	0.0%	0.0%	0.0%	0.0%	27.3%	-1.0%	0.0%	0.0%	0.2%	0.0%	100.0%	-75.5%	-0.9%
10/80	0	0	0	0	0	157	670	0	0	466	0	68	-88	1273
10/79	0	0	0	0	0	129	642	0	0	531	0	24	-102	1224
	0.0%	0.0%	0.0%	0.0%	0.0%	21.7%	4.4%	0.0%	0.0%	-12.2%	0.0%	183.3%	13.7%	4.0%
11/80	0	0	0	0	0	154	535	0	0	550	0	113	-165	1187
11/79	0	0	0	0	0	153	534	0	0	533	0	131	-67	1284
	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.2%	0.0%	0.0%	3.2%	0.0%	-13.7%	-146.3%	-7.6%
12/80	0	0	0	0	0	158	617	0	0	466	0	135	-99	1277
12/79	0	0	0	0	0	142	621	0	0	522	0	216	-87	1414
	0.0%	0.0%	0.0%	0.0%	0.0%	11.3%	-0.6%	0.0%	0.0%	-10.7%	0.0%	-37.5%	-13.8%	-9.7%
1/81	0	0	0	0	0	135	656	0	0	435	0	199	67	1492
1/80	0	0	0	0	0	157	686	0	0	467	0	217	9	1536
	0.0%	0.0%	0.0%	0.0%	0.0%	-14.0%	-4.4%	0.0%	0.0%	-6.9%	0.0%	-8.3%	644.4%	-2.9%
2/81	0	0	0	0	0	124	574	0	0	492	0	214	48	1452
2/80	0	0	0	0	0	130	647	0	0	492	0	352	2	1623
	0.0%	0.0%	0.0%	0.0%	0.0%	-4.6%	-11.3%	0.0%	0.0%	0.0%	0.0%	-39.2%	2300.0%	-10.5%
3/81	0	0	0	0	0	150	622	0	0	487	0	277	-25	1511
3/80	0	0	0	0	0	133	640	0	0	466	0	268	96	1603
	0.0%	0.0%	0.0%	0.0%	0.0%	12.8%	-2.8%	0.0%	0.0%	4.5%	0.0%	3.4%	-126.0%	-5.7%
4/81	0	0	0	0	0	136	570	0	0	493	0	186	15	1400
4/80	0	0	0	0	0	148	546	0	0	532	0	51	4	1281
	0.0%	0.0%	0.0%	0.0%	0.0%	-8.1%	4.4%	0.0%	0.0%	-7.3%	0.0%	264.7%	275.0%	9.3%
5/81	0	0	0	0	0	137	614	0	0	481	0	80	-16	1304
5/80	0	0	0	0	0	139	566	0	0	478	0	5	7	1195
	0.0%	0.0%	0.0%	0.0%	0.0%	-1.4%	8.5%	0.0%	0.0%	0.6%	0.0%	1660.0%	-328.6%	9.1%
SUMMER TOTAL														
	0	0	0	0	0	1025	4064	0	0	3453	0	348	-363	8527
	0	0	0	0	0	879	4117	0	0	3325	0	99	-197	8223
	0.0%	0.0%	0.0%	0.0%	0.0%	16.6%	-1.3%	0.0%	0.0%	3.8%	0.0%	251.5%	-84.3%	3.7%
WINTER TOTAL														
	0	0	0	0	0	721	3004	0	0	2430	0	938	-174	6919
	0	0	0	0	0	715	3128	0	0	2480	0	1184	-47	7460
	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	-4.0%	0.0%	0.0%	-2.0%	0.0%	-20.8%	-270.2%	-7.3%
YEAR TOTAL														
	0	0	0	0	0	1746	7068	0	0	5883	0	1286	-537	15446
	0	0	0	0	0	1594	7245	0	0	5805	0	1283	-244	15683
	0.0%	0.0%	0.0%	0.0%	0.0%	9.5%	-2.4%	0.0%	0.0%	1.3%	0.0%	0.2%	-120.1%	-1.5%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-6. Comparison Between Two Years of Actual Gas Supply for Ohio Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLIDATED GAS	LAWRENCEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	0	0	0	0	202	0	0	0	0	50	0	0	15	267
6/79	0	0	0	0	221	0	0	0	0	66	0	0	5	292
	0.0%	0.0%	0.0%	0.0%	-8.6%	0.0%	0.0%	0.0%	0.0%	-24.2%	0.0%	0.0%	200.0%	-8.6%
7/80	0	0	0	0	153	0	0	0	0	59	0	0	15	227
7/79	0	0	0	0	196	0	0	0	0	69	0	0	5	270
	0.0%	0.0%	0.0%	0.0%	-21.9%	0.0%	0.0%	0.0%	0.0%	-14.5%	0.0%	0.0%	200.0%	-15.9%
8/80	0	0	0	0	154	0	0	0	0	66	0	0	10	230
8/79	0	0	0	0	185	0	0	0	0	84	0	0	5	274
	0.0%	0.0%	0.0%	0.0%	-16.8%	0.0%	0.0%	0.0%	0.0%	-21.4%	0.0%	0.0%	100.0%	-16.1%
9/80	0	0	0	0	191	0	0	0	0	71	0	0	10	272
9/79	0	0	0	0	227	0	0	0	0	72	0	0	0	299
	0.0%	0.0%	0.0%	0.0%	-15.9%	0.0%	0.0%	0.0%	0.0%	-1.4%	0.0%	0.0%	999.9%	-9.0%
10/80	0	0	0	0	554	0	0	0	0	74	0	0	20	648
10/79	0	0	0	0	463	0	0	0	0	70	0	0	4	537
	0.0%	0.0%	0.0%	0.0%	19.7%	0.0%	0.0%	0.0%	0.0%	5.7%	0.0%	0.0%	400.0%	20.7%
11/80	0	0	0	0	620	0	0	0	0	70	0	0	33	723
11/79	0	0	0	0	666	0	0	0	0	97	0	0	16	779
	0.0%	0.0%	0.0%	0.0%	-6.9%	0.0%	0.0%	0.0%	0.0%	-27.8%	0.0%	0.0%	106.2%	-7.2%
12/80	0	0	0	0	858	0	0	0	0	71	0	0	60	989
12/79	0	0	0	0	809	0	0	0	0	68	0	0	24	901
	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	0.0%	0.0%	0.0%	4.4%	0.0%	0.0%	150.0%	9.8%
1/81	0	0	0	18	910	0	0	0	0	70	0	1.7	0	1565
1/80	0	0	0	0	1014	0	0	0	0	62	0	0	26	1602
	0.0%	0.0%	0.0%	999.9%	-10.3%	0.0%	0.0%	0.0%	0.0%	12.9%	0.0%	999.9%	-100.0%	-2.3%
2/81	0	0	0	23	722	0	0	0	0	63	0	128	0	936
2/80	0	0	0	0	967	0	0	0	0	63	0	0	20	1050
	0.0%	0.0%	0.0%	999.9%	-25.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	999.9%	-100.0%	-10.9%
3/81	0	0	0	23	618	0	0	0	0	70	0	89	0	800
3/80	0	0	0	0	816	0	0	0	0	68	0	0	20	904
	0.0%	0.0%	0.0%	999.9%	-24.3%	0.0%	0.0%	0.0%	0.0%	2.9%	0.0%	999.9%	-100.0%	-11.5%
4/81	0	0	0	15	384	0	0	0	0	45	0	0	0	444
4/80	0	0	0	0	439	0	0	0	0	64	0	0	20	523
	0.0%	0.0%	0.0%	999.9%	-12.5%	0.0%	0.0%	0.0%	0.0%	-29.7%	0.0%	0.0%	-100.0%	-15.1%
5/81	0	0	0	8	294	0	0	0	0	46	0	0	0	348
5/80	0	0	0	0	224	0	0	0	0	53	0	0	20	297
	0.0%	0.0%	0.0%	999.9%	31.3%	0.0%	0.0%	0.0%	0.0%	-13.2%	0.0%	0.0%	-100.0%	17.2%
SUMMER TOTAL														
	0	0	0	23	1932	0	0	0	0	411	0	0	70	2436
	0	0	0	0	1955	0	0	0	0	478	0	0	59	2492
	0.0%	0.0%	0.0%	999.9%	-1.2%	0.0%	0.0%	0.0%	0.0%	-14.0%	0.0%	0.0%	18.6%	-2.2%
WINTER TOTAL														
	0	0	0	64	3728	0	0	0	0	344	0	384	93	4613
	0	0	0	0	4272	0	0	0	0	358	0	0	100	4730
	0.0%	0.0%	0.0%	999.9%	-12.7%	0.0%	0.0%	0.0%	0.0%	-3.9%	0.0%	999.9%	-7.0%	-2.5%
YEAR TOTAL														
	0	0	0	87	5660	0	0	0	0	755	0	384	163	7049
	0	0	0	0	6227	0	0	0	0	836	0	0	159	7222
	0.0%	0.0%	0.0%	999.9%	-9.1%	0.0%	0.0%	0.0%	0.0%	-9.7%	0.0%	999.9%	2.5%	-2.4%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-7. Comparison Between Two Years of Actual Gas Supply for River Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAUREL-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	ENERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	0	19	0	0	0	0	0	0	0	134	0	0	0	153
6/79	0	57	0	0	0	0	0	0	0	172	0	0	0	229
	0.0%	-66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-22.1%	0.0%	0.0%	0.0%	-33.2%
7/80	0	12	0	0	0	0	0	0	0	144	0	0	0	156
7/79	0	49	0	0	0	0	0	0	0	112	0	0	0	161
	0.0%	-75.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	28.6%	0.0%	0.0%	0.0%	-3.1%
8/80	0	26	0	0	0	0	0	0	0	121	0	0	0	147
8/79	0	51	0	0	0	0	0	0	0	116	0	0	0	167
	0.0%	-49.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.3%	0.0%	0.0%	0.0%	-12.0%
9/80	0	55	0	0	0	0	0	0	0	119	0	0	0	174
9/79	0	74	0	0	0	0	0	0	0	152	0	0	0	226
	0.0%	-25.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-21.7%	0.0%	0.0%	0.0%	-23.0%
10/80	0	195	0	0	0	0	0	0	0	155	0	0	0	350
10/79	0	187	0	0	0	0	0	0	0	139	0	0	0	326
	0.0%	4.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.5%	0.0%	0.0%	0.0%	7.4%
11/80	0	362	0	0	0	0	0	0	0	126	0	0	0	488
11/79	0	257	0	0	0	0	0	0	0	163	0	0	0	420
	0.0%	40.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-22.7%	0.0%	0.0%	0.0%	16.2%
12/80	0	516	0	0	0	0	0	0	0	111	0	0	0	627
12/79	0	372	0	0	0	0	0	0	0	196	0	0	0	568
	0.0%	38.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-43.4%	0.0%	0.0%	0.0%	10.4%
1/81	0	692	0	0	0	0	0	0	0	133	0	0	0	825
1/80	0	468	0	0	0	0	0	0	0	159	0	0	0	627
	0.0%	47.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-16.4%	0.0%	0.0%	0.0%	31.6%
2/81	0	510	0	0	0	0	0	3	6	90	0	0	0	600
2/80	0	559	0	0	0	0	0	0	0	154	0	0	0	713
	0.0%	-8.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-41.6%	0.0%	0.0%	0.0%	-15.8%
3/81	0	435	0	0	0	0	0	0	0	97	0	0	0	532
3/80	0	415	0	0	0	0	0	0	0	146	0	0	0	561
	0.0%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-33.6%	0.0%	0.0%	0.0%	-5.2%
4/81	0	155	0	0	0	0	0	0	0	133	0	0	0	288
4/80	0	195	0	0	0	0	0	0	0	180	0	0	0	375
	0.0%	-20.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-26.1%	0.0%	0.0%	0.0%	-23.2%
5/81	0	102	0	0	0	0	0	0	0	117	0	0	0	219
5/80	0	68	0	0	0	0	0	0	0	135	0	0	0	203
	0.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-13.3%	0.0%	0.0%	0.0%	7.9%
SUMMER TOTAL														
	0	564	0	0	0	0	0	0	0	923	0	0	0	1487
	0	681	0	0	0	0	0	0	0	1004	0	0	0	1687
	0.0%	-17.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-8.1%	0.0%	0.0%	0.0%	-11.9%
WINTER TOTAL														
	0	2515	0	0	0	0	0	0	0	557	0	0	0	3072
	0	2071	0	0	0	0	0	0	0	818	0	0	0	2889
	0.0%	21.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-31.9%	0.0%	0.0%	0.0%	6.3%
YEAR TOTAL														
	0	3079	0	0	0	0	0	0	0	1480	0	0	0	4559
	0	2752	0	0	0	0	0	0	0	1824	0	0	0	4576
	0.0%	11.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-18.9%	0.0%	0.0%	0.0%	-0.4%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-8. Comparison Between Two Years of Actual Gas Supply for West Ohio Gas Company (MMCF)

MO/YR	COLUMBIA GAS	CONSOLID-ATED GAS	LAWREN-CEBURG	MICH. WISC.	PANHANDLE EAST	TENN. GAS	TEXAS EASTERN	TEXAS GAS	EMERG GAS	OHIO PRODUCT	SNG	STORAGE/ PROPANE	OTHER	TOTAL SUPPLIES
6/80	385	0	0	5	0	0	0	0	0	0	40	0	0	430
6/79	503	0	0	7	0	0	0	0	0	0	40	0	0	550
	-23.5%	0.0%	0.0%	-23.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-21.8%
7/80	307	0	0	5	0	0	0	0	0	0	34	0	0	346
7/79	412	0	0	6	0	0	0	0	0	0	34	0	0	452
	-25.5%	0.0%	0.0%	-16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-23.5%
8/80	384	0	0	6	0	0	0	0	0	0	22	0	0	412
8/79	432	0	0	7	0	0	0	0	0	0	38	0	0	477
	-11.1%	0.0%	0.0%	-14.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-42.1%	0.0%	0.0%	-13.6%
9/80	392	0	0	15	0	0	0	0	0	0	42	0	0	449
9/79	504	0	0	33	0	0	0	0	0	0	34	0	0	571
	-22.2%	0.0%	0.0%	-54.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.5%	0.0%	0.0%	-21.4%
10/80	963	0	0	27	0	0	0	0	0	0	56	0	0	1046
10/79	875	0	0	100	0	0	0	0	0	0	63	0	0	1038
	10.1%	0.0%	0.0%	73.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-11.1%	0.0%	0.0%	0.8%
11/80	1334	0	0	72	0	0	0	0	0	0	96	0	0	1502
11/79	1309	0	0	136	0	0	0	0	0	0	90	0	0	1535
	1.9%	0.0%	0.0%	-47.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	-2.1%
12/80	1741	0	0	85	0	0	0	0	0	0	125	0	0	1951
12/79	1562	0	0	159	0	0	0	0	0	0	120	0	0	1841
	11.5%	0.0%	0.0%	-46.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.2%	0.0%	0.0%	6.0%
1/81	2050	0	0	132	0	0	0	0	0	0	153	0	0	2335
1/80	1941	0	0	190	0	0	0	0	0	0	129	0	0	2260
	5.6%	0.0%	0.0%	-30.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.6%	0.0%	0.0%	3.3%
2/81	1645	0	0	70	0	0	0	0	0	0	144	0	0	1859
2/80	1895	0	0	191	0	0	0	0	0	0	111	0	0	2197
	-13.2%	0.0%	0.0%	-63.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	29.7%	0.0%	0.0%	-15.4%
3/81	1458	0	0	56	0	0	0	0	0	0	115	0	0	1629
3/80	1575	0	0	158	0	0	0	0	0	0	99	0	0	1832
	-7.4%	0.0%	0.0%	-64.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.2%	0.0%	0.0%	-11.1%
4/81	739	0	0	33	0	0	0	0	0	0	88	0	0	860
4/80	967	0	0	95	0	0	0	0	0	0	77	0	0	1139
	-23.6%	0.0%	0.0%	-65.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	0.0%	-24.5%
5/81	608	0	0	28	0	0	0	0	0	0	55	0	0	691
5/80	560	0	0	7	0	0	0	0	0	0	58	0	0	625
	8.6%	0.0%	0.0%	300.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-5.2%	0.0%	0.0%	10.6%
SUMMER TOTAL														
	3778	0	0	119	3	0	0	0	0	0	337	0	0	4234
	4253	0	0	255	0	0	0	0	0	0	344	0	0	4852
	-11.2%	0.0%	0.0%	-53.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-2.0%	0.0%	0.0%	-12.7%
WINTER TOTAL														
	8228	0	0	415	0	0	0	0	0	0	633	0	0	9276
	8282	0	0	834	3	0	0	0	0	0	549	0	0	9665
	0.7%	0.0%	0.0%	-50.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.3%	0.0%	0.0%	-4.0%
YEAR TOTAL														
	12606	0	0	534	0	0	0	0	0	0	970	0	0	13510
	12535	0	0	1089	0	0	0	0	0	0	893	0	0	14517
	0.6%	0.0%	0.0%	-51.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.6%	0.0%	0.0%	-6.9%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH.

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON ZERO VALUE AND THUS A DIVISION BY ZERO.

Table B-9. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Sector for Cincinnati Gas and Electric Company
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
6/81	9	1497	647	3321	-332	3	5135	0
6/80	24	995	612	1273	-103	0	2777	0
	-62.5%	50.7%	5.7%	160.9%	-222.3%	0.0%	84.9%	0.0%
7/81	0	823	558	2418	164	0	3963	0
7/80	0	798	491	1302	168	0	2759	0
	0.0%	3.1%	13.6%	85.7%	-2.4%	0.0%	43.6%	0.0%
8/81	0	822	559	2444	164	0	3989	0
8/80	0	748	490	1827	133	0	3198	0
	0.0%	9.9%	14.1%	33.8%	23.3%	0.0%	24.7%	0.0%
9/81	44	847	570	2448	177	0	4042	0
9/80	48	735	499	2015	191	0	3440	0
	-8.3%	15.2%	14.2%	21.5%	-7.3%	0.0%	17.5%	0.0%
10/81	271	1428	873	2676	1185	0	6162	0
10/80	446	1356	820	2301	2089	0	6566	0
	-39.2%	5.3%	6.5%	16.3%	-43.3%	0.0%	-6.2%	0.0%
11/81	636	2952	1727	2760	1954	0	9393	0
11/80	697	3096	1856	2752	1944	0	9648	0
	-8.8%	-4.7%	-7.0%	0.3%	0.5%	0.0%	-2.6%	0.0%
12/81	970	5425	3143	3146	1276	0	12990	0
12/80	988	4942	2898	3337	1669	0	12846	0
	-1.8%	9.8%	8.5%	-5.7%	-23.5%	0.0%	1.1%	0.0%
1/82	1051	6206	3521	2928	634	0	13289	0
1/81	1261	7141	3957	3591	475	0	15164	0
	-16.7%	-13.1%	-11.0%	-18.5%	33.5%	0.0%	-12.4%	0.0%
2/82	888	5854	3299	2919	-508	0	11564	0
2/81	858	6368	3645	3147	-1508	0	11652	0
	3.5%	-8.1%	-9.5%	-7.2%	66.3%	0.0%	-0.8%	0.0%
3/82	722	5268	2497	3099	-846	0	10463	0
3/81	768	5005	2914	3031	-624	0	10326	0
	-6.0%	5.3%	2.8%	0.4%	-35.6%	0.0%	1.3%	0.0%
4/82	341	3769	2214	3110	-1440	0	7653	0
4/81	230	2805	1638	2647	-1629	0	5461	0
	48.3%	34.4%	35.2%	17.5%	11.5%	0.0%	40.1%	0.0%
5/82	138	1959	1169	2812	-572	0	5368	0
5/81	191	1745	1058	2937	-260	0	5480	0
	-27.7%	12.3%	10.5%	-4.3%	-120.0%	0.0%	-2.0%	0.0%
SUMMER TOTAL								
	803	11147	6590	19229	-654	0	36312	0
	939	9181	5600	14302	590	0	29601	0
	-14.5%	21.4%	17.5%	34.4%	-210.8%	0.0%	22.3%	0.0%
WINTER TOTAL								
	4267	25705	14687	14797	2510	0	57699	0
	4572	26552	15270	15858	1956	0	59636	0
	-6.7%	-3.2%	-3.8%	-6.7%	28.3%	0.0%	-3.2%	0.0%
YEAR TOTAL								
	5070	36852	21277	34026	1856	0	94011	0
	5511	35733	20870	30160	2546	0	89317	0
	-8.0%	3.1%	1.9%	12.8%	-27.1%	0.0%	5.3%	0.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Table B-10. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Sector for Columbia Gas of Ohio
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
4/81	85	4294	1808	11650	-1107	0	16725	0
4/80	83	4219	1712	8790	-751	0	13970	0
	2.4%	1.8%	10.3%	32.5%	-47.4%	0.0%	19.7%	0.0%
7/81	0	3173	1531	9280	-451	0	13533	0
7/80	0	3419	1483	8368	-506	0	12764	0
	0.0%	-7.2%	3.2%	10.9%	10.9%	0.0%	6.0%	0.0%
8/81	0	3172	1529	10263	534	0	15498	0
8/80	0	2901	1438	9180	254	0	13773	0
	0.0%	9.3%	6.3%	11.8%	110.2%	0.0%	12.5%	0.0%
9/81	38	3354	1557	10524	647	0	16082	0
9/80	26	2882	1372	9412	774	0	14440	0
	46.2%	16.4%	13.5%	11.8%	-16.4%	0.0%	11.4%	0.0%
10/81	197	6019	2529	11500	4219	0	24267	0
10/80	278	6677	2635	9663	5409	2586	26970	0
	-29.1%	-9.9%	-4.0%	19.0%	-22.0%	-100.0%	-10.0%	0.0%
11/81	570	12288	5327	12455	3343	0	33415	0
11/80	640	12789	5312	11777	4545	0	34423	0
	-10.9%	-3.9%	0.3%	5.8%	-26.4%	0.0%	-2.9%	0.0%
12/81	951	19390	8449	13063	5421	0	46320	0
12/80	962	19238	8019	13342	4794	0	45393	0
	-1.1%	0.8%	5.4%	-2.1%	13.1%	0.0%	2.0%	0.0%
1/82	1290	26030	11353	14516	5489	0	57388	0
1/81	1415	27517	11538	14601	115	0	53771	0
	-8.8%	-5.4%	-1.6%	-0.6%	4671.0%	0.0%	6.7%	0.0%
2/82	1102	23192	10173	14269	-2860	0	44774	0
2/81	1112	22429	9780	13019	0	-3357	41871	0
	-0.9%	3.4%	4.0%	9.6%	999.9%	100.0%	6.9%	0.0%
3/82	918	20248	8751	13594	-3172	0	39421	0
3/81	851	18263	7801	11957	-634	0	37387	0
	7.9%	10.9%	12.2%	13.7%	-400.3%	0.0%	5.4%	0.0%
4/82	560	13447	5775	12045	-3153	45	28159	0
4/81	451	10745	4688	11112	0	-3512	23033	0
	24.2%	25.1%	23.2%	8.4%	999.9%	101.3%	22.3%	0.0%
5/82	288	7904	3379	11295	-1970	0	20608	0
5/81	313	7643	3142	10888	-1252	0	20419	0
	-8.0%	3.4%	7.5%	3.8%	-57.3%	0.0%	1.0%	0.0%
SUMMER TOTAL								
	1160	41363	18188	76557	-1281	45	134872	0
	1151	38486	16470	67405	3928	-926	125363	0
	1.5%	7.5%	10.4%	13.6%	-132.6%	104.9%	7.6%	0.0%
WINTER TOTAL								
	4831	101148	44053	67896	8221	0	221318	0
	4980	100236	42450	64696	8020	-3357	212845	0
	-3.0%	0.9%	3.8%	4.9%	-6.8%	100.0%	4.0%	0.0%
YEAR TOTAL								
	5999	142511	62241	144453	6940	45	356190	0
	6131	139722	58920	132101	12748	-4283	338208	0
	-2.2%	2.7%	5.6%	9.4%	-45.6%	101.1%	5.3%	0.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Table B-11. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Sector for Dayton Power and Light Company
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
6/81	78	971	410	958	-147	0	2192	0
6/80	52	910	389	987	-67	158	2377	0
	25.8%	6.7%	5.4%	-2.9%	-119.4%	-100.0%	-7.8%	0.0%
7/81	9	645	330	931	-49	0	1857	0
7/80	15	712	328	882	-24	241	2139	0
	-40.0%	-9.4%	0.6%	5.6%	-104.2%	-100.0%	-13.2%	0.0%
8/81	1	644	312	929	36	0	1921	0
8/80	0	620	313	914	49	0	1896	0
	999.9%	3.9%	-0.3%	1.6%	-26.5%	0.0%	1.3%	0.0%
9/81	29	644	340	1016	45	0	2045	0
9/80	22	653	336	815	82	57	1943	0
	31.8%	-1.4%	1.2%	24.7%	-45.1%	-100.0%	5.2%	0.0%
10/81	192	1446	530	1171	319	[illegible]	3466	0
10/80	268	1233	552	1042	59	[illegible]	3044	0
	-28.4%	12.7%	-4.0%	12.4%	440.7%	-100.[illegible]	13.9%	0.0%
11/81	482	2660	988	1386	352	0	5386	0
11/80	603	2757	1067	1601	602	31	6058	0
	-20.1%	-3.5%	-7.4%	-13.4%	-41.5%	-100.0%	-11.1%	0.0%
12/81	865	4268	1525	1595	451	0	7839	0
12/80	871	4114	1502	1560	439	0	7615	0
	-0.7%	3.7%	1.5%	2.2%	2.7%	0.0%	2.9%	0.0%
1/82	1111	5243	1788	1781	86	0	8898	0
1/81	1307	6011	2141	1910	753	0	10815	0
	-15.0%	-12.8%	-16.5%	-6.8%	-88.6%	0.0%	-17.7%	0.0%
2/82	1125	5349	1873	1798	180	0	9200	0
2/81	1103	5468	2042	1800	23	0	9333	0
	2.0%	-2.2%	-8.3%	-0.1%	682.6%	0.0%	-1.4%	0.0%
3/82	852	4182	1498	1568	-292	0	6956	0
3/81	824	4292	1572	1563	-363	0	7064	0
	3.4%	2.6%	-4.7%	0.3%	19.6%	0.0%	-1.5%	0.0%
4/82	629	3252	1185	1328	-205	0	5560	0
4/81	446	2646	999	1136	-643	0	4138	0
	41.0%	22.9%	18.6%	16.9%	68.1%	0.0%	34.4%	0.0%
5/82	288	1839	677	1053	-257	0	3312	0
5/81	312	1739	651	1015	135	0	3540	0
	-7.7%	5.8%	4.0%	3.7%	-290.4%	0.0%	-6.4%	0.0%
SUMMER TOTAL								
	1226	9441	3784	7386	-258	0	20353	0
	1125	8563	3568	6791	-409	564	19077	0
	9.0%	10.3%	6.1%	8.8%	36.9%	-100.0%	6.7%	0.0%
WINTER TOTAL								
	4445	21702	7672	8128	777	0	30279	0
	4708	22642	8324	8434	1454	31	40885	0
	-5.6%	-4.2%	-7.8%	-3.6%	-46.6%	-100.0%	-6.4%	0.0%
YEAR TOTAL								
	5671	31143	11456	15514	519	0	58632	0
	5833	31205	11892	15225	1045	595	59962	0
	-2.8%	-0.2%	-3.7%	1.9%	-50.3%	-100.0%	-2.2%	0.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Table B-12. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Sector for East Ohio Gas Company (MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
6/81	121	5686	2264	8304	-974	9712	24992	0
6/80	134	5102	1822	6596	-554	9375	22341	0
	-9.7%	11.4%	24.3%	25.9%	-75.8%	3.6%	11.9%	0.0%
7/81	7	4088	1641	6958	476	9417	22580	0
7/80	33	3946	1597	5524	263	8668	19998	0
	-78.8%	3.6%	2.8%	26.0%	81.0%	8.6%	12.9%	0.0%
8/81	12	3824	1542	7975	873	8712	22926	0
8/80	3	3662	1516	5718	429	8553	19878	0
	300.0%	4.4%	1.7%	39.5%	103.5%	1.9%	15.3%	0.0%
9/81	55	4502	1798	8165	1815	8460	24740	0
9/80	31	3416	1610	6602	1687	8267	21582	0
	77.4%	31.8%	11.7%	23.7%	7.6%	2.3%	14.6%	0.0%
10/81	219	7089	2864	8582	4849	6833	30217	0
10/80	300	6993	2879	7610	8639	6760	32881	0
	-27.0%	1.4%	-0.5%	12.8%	-43.9%	1.1%	-8.1%	0.0%
11/81	534	12770	4987	9118	5790	0	32665	0
11/80	630	14201	5713	9021	5597	-14	34518	0
	-16.3%	-10.1%	-12.7%	1.1%	3.4%	100.0%	-5.4%	0.0%
12/81	983	21382	8232	9867	4043	0	43524	0
12/80	995	21978	8879	10077	5841	0	46775	0
	-1.2%	-2.7%	-7.3%	-2.1%	-30.8%	0.0%	-7.0%	0.0%
1/82	1197	25662	9865	10856	866	1326	48575	0
1/81	1423	29238	11465	10946	2183	0	53832	0
	-15.9%	-12.2%	-14.0%	-0.8%	-60.3%	999.9%	-9.8%	0.0%
2/82	1155	24333	9357	11182	-2249	1326	43949	0
2/81	1156	25066	9851	10403	-5043	0	40327	0
	-0.1%	-2.9%	-5.5%	7.5%	55.4%	999.9%	9.0%	0.0%
3/82	954	20896	8105	10097	-548	0	38550	0
3/81	900	20665	8097	9954	-1	135	38896	0
	6.0%	1.1%	0.1%	1.4%	-147.1.3%	-100.0%	-0.9%	0.0%
4/82	660	14975	5837	9228	-3674	8263	34629	0
4/81	528	13585	4969	8767	-4184	9185	32322	0
	25.0%	10.2%	17.5%	5.3%	12.2%	-10.0%	7.1%	0.0%
5/82	329	8713	3434	8685	-1300	10277	29809	0
5/81	365	9626	3325	8362	-2890	9573	27996	0
	-9.9%	-9.5%	3.3%	3.9%	55.0%	7.4%	6.5%	0.0%
SUMMER TOTAL								
	1403	48877	19380	57897	2065	61674	189893	0
	1394	46330	17718	49179	3390	60381	176998	0
	0.6%	5.5%	9.4%	17.7%	-39.1%	2.1%	7.3%	0.0%
WINTER TOTAL								
	4823	105043	40546	51120	7902	2652	207263	0
	5112	111147	44055	50401	8624	121	214348	0
	-5.7%	-5.5%	-8.0%	1.4%	-8.4%	2091.7%	-3.3%	0.0%
YEAR TOTAL								
	6226	153920	59926	109017	9967	64326	397156	0
	6506	157477	61773	99580	12014	60502	391346	0
	-4.3%	-2.3%	-3.0%	9.5%	-17.0%	6.3%	1.5%	0.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON ZERO VALUE AND THUS A DIVISION BY ZERO.

(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Table B-11. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Sector for National Gas and Oil Company
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
6/81	0	50	30	700	10	170	986	-222
6/80	0	50	23	[illegible]	284	159	1112	0
	0.0%	0.0%	30.4%	17.4%	[illegible]	19.5%	-11.2%	999.9%
7/81	0	42	20	680	10	260	1020	-100
7/80	0	35	17	688	226	208	1174	0
	0.0%	20.0%	17.6%	-1.2%	-92.0%	25.0%	-13.1%	999.9%
8/81	0	40	20	720	10	280	1070	107
8/80	0	38	18	683	164	208	1111	0
	0.0%	5.3%	11.1%	5.4%	-89.0%	34.6%	-3.0%	999.9%
9/81	108	40	20	720	10	230	1028	-137
9/80	89	32	17	694	221	189	1153	0
	21.3%	25.0%	17.6%	3.7%	-91.9%	21.7%	-10.8%	999.9%
10/81	393	70	35	700	20	190	1015	-85
10/80	466	71	35	805	256	106	1273	0
	-16.0%	-1.4%	0.0%	-13.0%	-92.2%	79.2%	-20.3%	999.9%
11/81	707	155	80	770	10	0	1023	-60
11/80	740	152	73	739	185	38	1107	0
	-4.5%	2.0%	9.6%	4.2%	-90.3%	-100.0%	-13.8%	999.9%
12/81	1060	230	110	740	10	0	1090	-176
12/80	990	230	107	740	183	17	1277	0
	7.1%	0.0%	2.8%	0.0%	-90.2%	-100.0%	-14.0%	999.9%
1/82	1221	310	150	720	10	0	1190	-237
1/81	1345	354	165	849	119	5	1492	0
	-9.2%	-12.4%	-9.1%	-15.2%	-84.9%	-100.0%	-19.7%	999.9%
2/82	1045	290	140	700	10	0	1140	-329
2/81	971	297	142	671	342	0	1452	0
	7.6%	-2.4%	-1.4%	4.3%	-94.7%	0.0%	-20.9%	999.9%
3/82	824	270	110	720	10	0	1126	-354
3/81	884	224	106	706	475	0	1511	0
	-6.8%	20.5%	11.3%	2.0%	-96.2%	0.0%	-25.5%	999.9%
4/82	456	180	84	700	10	0	982	308
4/81	404	158	74	634	536	0	1400	0
	12.9%	13.9%	13.5%	10.8%	-96.6%	0.0%	-29.9%	999.9%
5/82	194	120	55	700	10	160	1053	-167
5/81	317	100	43	667	494	0	1304	0
	-38.8%	20.0%	27.9%	4.9%	-96.4%	999.9%	-19.2%	999.9%
SUMMER TOTAL	1151	542	264	4920	120	1310	7164	-1286
	1278	484	227	4765	2161	870	8527	0
	-9.9%	12.0%	16.3%	3.3%	-94.1%	50.6%	-16.0%	999.9%
WINTER TOTAL	4857	1255	590	3650	90	0	5593	-1156
	4930	1257	593	3705	1304	60	6919	0
	-1.5%	-0.2%	0.0%	-1.5%	-93.1%	-100.0%	-19.2%	999.9%
YEAR TOTAL	6008	1797	862	8570	210	1310	12757	-2442
	6208	1741	820	8470	3485	930	15446	0
	-3.2%	3.2%	5.1%	1.2%	-93.7%	40.9%	-17.4%	999.9%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

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(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Table B-14. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Sector for Ohio Gas Company
(MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
6/81	31	96	40	212	10	0	358	381
6/80	47	85	34	158	10	0	287	0
	-34.0%	12.9%	17.6%	34.2%	200.0%	0.0%	24.7%	999.9%
7/81	4	63	28	185	10	0	286	332
7/80	0	58	24	133	12	0	227	0
	999.9%	8.6%	16.7%	39.1%	-16.7%	0.0%	25.0%	999.9%
8/81	11	66	30	188	11	0	295	373
8/80	1	55	24	136	15	0	230	0
	1000.0%	20.0%	25.0%	38.2%	-26.7%	0.0%	28.3%	999.9%
9/81	101	76	32	216	46	0	370	564
9/80	80	57	27	162	26	0	272	0
	26.3%	33.3%	18.5%	33.3%	76.9%	0.0%	36.0%	999.9%
10/81	381	188	81	252	23	0	544	679
10/80	221	126	66	281	144	31	648	0
	72.4%	49.2%	22.7%	-10.3%	-84.0%	-100.0%	-16.0%	999.9%
11/81	727	311	132	274	32	0	749	1200
11/80	726	259	118	243	103	0	723	0
	0.1%	20.1%	11.9%	12.8%	-68.9%	0.0%	3.6%	999.9%
12/81	1131	459	197	331	44	0	1031	993
12/80	1153	374	170	273	172	0	989	0
	-1.9%	22.7%	15.9%	21.2%	-74.4%	0.0%	4.2%	999.9%
1/82	1321	529	228	356	50	0	1163	841
1/81	1398	566	245	317	37	0	1165	0
	-5.5%	-6.5%	-6.9%	12.3%	35.1%	0.0%	-0.2%	999.9%
2/82	1117	451	195	315	43	0	1004	790
2/81	1196	502	217	287	70	0	936	0
	-6.6%	-10.2%	-10.1%	9.8%	161.4%	0.0%	7.3%	999.9%
3/82	870	368	158	280	36	0	842	1107
3/81	793	380	168	276	24	0	800	0
	9.7%	-3.2%	-6.0%	1.4%	250.0%	0.0%	5.3%	999.9%
4/82	476	224	96	208	24	0	552	732
4/81	440	260	93	170	79	0	444	0
	8.2%	-13.8%	3.2%	22.4%	130.4%	0.0%	24.3%	999.9%
5/82	206	128	53	159	15	0	355	688
5/81	260	176	60	143	31	0	348	0
	-20.8%	-27.3%	-11.7%	11.2%	148.4%	0.0%	2.0%	999.9%
SUMMER TOTAL								
	1210	841	360	1420	139	0	2760	3749
	1049	817	328	1183	77	31	2436	0
	15.3%	2.9%	9.8%	20.0%	80.5%	-100.0%	13.3%	999.9%
WINTER TOTAL								
	5166	2118	910	1556	205	0	4789	4931
	5266	2081	918	1396	218	0	4613	0
	-1.9%	1.8%	-0.9%	11.5%	-6.0%	0.0%	3.8%	999.9%
YEAR TOTAL								
	6376	2959	1270	2976	344	0	7549	8680
	6315	2898	1246	2579	295	31	7049	0
	1.0%	2.1%	1.9%	15.4%	16.6%	-100.0%	7.1%	999.9%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

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(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE. A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Table B-15. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Sector for River Gas Company (MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIREMENT	STORAGE (IN)	TOTAL REQUIREMENT	DEFICIENCY
6/81	34	55	24	69	-2	0	146	0
6/80	40	49	17	79	8	0	153	0
	-15.0%	12.2%	41.2%	-12.7%	-125.0%	0.0%	-4.6%	0.0%
7/81	0	43	18	59	12	0	132	0
7/80	1	42	16	63	35	0	156	0
	-100.0%	2.4%	12.5%	-6.3%	-65.7%	0.0%	-15.4%	0.0%
8/81	0	41	18	64	12	0	135	0
8/80	0	38	14	79	16	0	147	0
	0.0%	7.9%	28.6%	-19.0%	-25.0%	0.0%	-8.2%	0.0%
9/81	16	45	19	89	29	0	182	0
9/80	6	40	16	119	-1	0	174	0
	166.7%	12.5%	18.8%	-25.2%	3000.0%	0.0%	4.6%	0.0%
10/81	167	89	34	123	63	0	309	0
10/80	213	60	24	111	155	0	350	0
	-21.6%	48.3%	41.7%	10.8%	-59.4%	0.0%	-11.7%	0.0%
11/81	491	182	70	131	75	0	458	0
11/80	628	166	62	130	130	0	488	0
	-21.8%	9.6%	12.9%	0.8%	-42.3%	0.0%	6.1%	0.0%
12/81	817	278	107	131	101	0	617	0
12/80	811	279	105	146	97	0	627	0
	0.7%	-0.4%	1.9%	-10.3%	4.1%	0.0%	-1.6%	0.0%
1/82	993	331	128	196	65	0	720	0
1/81	1276	412	154	163	96	0	825	0
	-22.2%	-19.7%	-16.9%	20.2%	-32.3%	0.0%	-12.7%	0.0%
2/82	942	325	125	208	1	0	659	0
2/81	1039	364	147	191	-242	0	600	0
	-6.4%	-10.7%	-15.0%	8.9%	101.0%	0.0%	9.8%	0.0%
3/82	711	272	104	160	-18	0	518	0
3/81	764	265	101	139	27	0	532	0
	-6.9%	2.6%	3.0%	15.1%	-166.7%	0.0%	-2.6%	0.0%
4/82	446	186	71	124	-52	0	329	0
4/81	411	193	75	144	-124	0	288	0
	8.5%	-3.6%	-5.3%	-13.9%	58.1%	0.0%	14.2%	0.0%
5/82	170	102	39	137	-17	0	261	0
5/81	252	111	40	103	-35	0	219	0
	-32.5%	-8.1%	-2.5%	33.0%	51.4%	0.0%	19.2%	0.0%
SUMMER TOTAL								
	833	561	223	665	45	0	1494	0
	923	533	202	693	54	0	1487	0
	-9.8%	5.3%	10.4%	-4.7%	-16.7%	0.0%	0.5%	0.0%
WINTER TOTAL								
	3984	1388	534	826	224	0	2972	0
	4518	1486	569	769	248	0	3072	0
	-11.8%	-6.6%	-6.2%	7.4%	-9.7%	0.0%	-3.3%	0.0%
YEAR TOTAL								
	4817	1949	757	1491	269	0	4466	0
	5441	2019	771	1467	302	0	4559	0
	-11.5%	-3.5%	-1.8%	1.6%	-10.9%	0.0%	-2.0%	0.0%

--NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

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(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS.

Table 8-16. Comparison Between 1980-81 Actual and 1981-82 Forecast Gas Demand by Section for West Ohio Gas Company (MMCF)

MONTH/YEAR	DEGREE DAYS	RESIDENTIAL REQUIREMENT	COMMERCIAL REQUIREMENT	INDUSTRIAL REQUIREMENT	OTHER REQUIPSMENT	STORAGE (INJ)	TOTAL REQUIREMENT	DEFICIENCY
6/81	114	232	121	271	-93	0	531	0
6/80	78	198	102	194	-64	0	430	0
	46.2%	17.2%	18.6%	39.7%	-45.3%	0.0%	23.5%	0.0%
7/81	15	147	93	201	-11	0	430	0
7/80	23	135	80	160	-29	0	346	0
	-34.8%	8.9%	16.3%	25.6%	62.1%	0.0%	24.3%	0.0%
8/81	5	136	88	241	82	0	547	0
8/80	0	119	79	175	39	0	412	0
	999.9%	14.3%	11.4%	37.7%	110.3%	0.0%	32.8%	0.0%
9/81	25	156	93	279	45	0	573	0
9/80	3	117	81	203	48	0	449	0
	733.3%	33.3%	14.8%	37.4%	-6.3%	0.0%	27.6%	0.0%
10/81	158	274	155	269	339	0	1037	0
10/80	124	228	174	214	430	0	1046	0
	27.4%	20.2%	-10.9%	25.7%	-21.2%	0.0%	-0.9%	0.0%
11/81	464	550	287	263	296	0	1396	0
11/80	494	540	347	238	377	0	1502	0
	-6.1%	1.9%	-17.3%	10.5%	-21.5%	0.0%	-7.1%	0.0%
12/81	811	868	445	301	174	0	1788	0
12/80	913	1001	517	306	127	0	1951	0
	-11.2%	-13.3%	-13.9%	-1.6%	37.0%	0.0%	-8.4%	0.0%
1/82	1137	1164	610	308	259	0	2341	0
1/81	1375	1210	676	320	129	0	2335	0
	-17.3%	-3.8%	-9.8%	-3.8%	100.8%	0.0%	0.3%	0.0%
2/82	1175	1197	628	325	67	0	2217	0
2/81	1190	1067	581	339	-128	0	1859	0
	-1.3%	12.2%	8.1%	-4.1%	152.3%	0.0%	19.3%	0.0%
3/82	907	920	510	424	-157	0	1597	0
3/81	769	793	431	304	101	0	1629	0
	17.9%	16.0%	18.3%	6.6%	-255.4%	0.0%	-2.0%	0.0%
4/82	710	747	408	298	-232	0	1221	0
4/81	560	574	298	259	-271	0	860	0
	26.8%	30.1%	36.9%	15.1%	14.4%	0.0%	42.0%	0.0%
5/82	338	422	237	277	-147	0	789	0
5/81	369	408	213	223	-153	0	691	0
	-8.4%	3.4%	11.3%	24.2%	3.9%	0.0%	14.2%	0.0%
SUMMER TOTAL								
	1365	2114	1195	1836	-17	0	5128	0
	1157	1779	1027	1428	0	0	4234	0
	18.0%	18.8%	16.4%	28.6%	999.9%	0.0%	21.1%	0.0%
WINTER TOTAL								
	4494	4699	2480	1521	639	0	9339	0
	4741	4611	2552	1507	606	0	9276	0
	-5.2%	1.9%	-2.8%	0.9%	5.4%	0.0%	0.7%	0.0%
YEAR TOTAL								
	5859	6813	3675	3357	622	0	14467	0
	5898	6390	3579	2935	606	0	13510	0
	-0.7%	6.6%	2.7%	14.4%	2.6%	0.0%	7.1%	0.0%

NOTE: (1) WINTER TOTAL IS A SUM OF THE VALUES IN NOVEMBER, DECEMBER, JANUARY, FEBRUARY, AND MARCH

(2) 999.9% REPRESENTS AN INFINITE PERCENTAGE CHANGE RESULTING FROM AN INCREASE FROM A ZERO VALUE TO SOME NON-ZERO VALUE AND THUS A DIVISION BY ZERO.

(3) A POSITIVE DEFICIENCY INDICATES SHORTAGE, A NEGATIVE DEFICIENCY INDICATES SURPLUS

Table B-17. Projected Supply and Demand for Eight Major Ohio Natural Gas Utilities
(MCF)

COMPANY: CINN. GAS & ELEC.

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	5135	3963	3989	4042	6162	9393	12990	13289	11564	10463	7653	5368	36312	57699	94011
DEMAND	5135	3963	3989	4042	6162	9393	12990	13289	11564	10463	7653	5368	36312	57699	94011
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

COMPANY: COLUMBIA GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	16725	13533	15498	16082	24267	33415	46320	57388	44774	39421	28159	20608	134872	221318	356190
DEMAND	16725	13533	15498	16082	24267	33415	46320	57388	44774	39421	28159	20608	134872	221318	356190
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

COMPANY: DAYTON POWER & LIGHT

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	2192	1857	1921	2045	3466	5386	7839	8898	9200	6956	5560	3312	20353	38279	58632
DEMAND	2192	1857	1921	2045	3466	5386	7839	8898	9200	6956	5560	3312	20353	38279	58632
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

COMPANY: EAST OHIO GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	24992	22580	22926	24740	30217	32665	43524	48575	43949	38550	34629	29809	189893	207263	397156
DEMAND	24992	22580	22926	24740	30217	32665	43524	48575	43949	38550	34629	29809	189893	207263	397156
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Table B-17. Projected Supply and Demand for Eight Major Ohio Natural Gas Utilities (Cont'd)
(MMCF)

COMPANY: NATIONAL GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	1210	1200	1185	1165	1100	1083	1274	1435	1477	1480	1370	1220	8450	6749	15199
DEMAND	988	1020	1078	1028	1015	1023	1698	1198	1148	1126	982	1053	7164	5593	12757
DEFICIENCY	-222	-180	-107	-137	-85	-60	-176	-237	-329	-354	-388	167	-1286	-1156	-2442
% DEFICIENCY	-22.5%	-17.6%	-9.9%	-13.3%	-8.4%	-5.9%	-16.0%	-19.8%	-28.7%	-31.4%	-39.5%	-15.9%	-18.0%	-20.7%	-19.1%

COMPANY: OHIO GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	739	618	668	934	1223	1949	2024	2004	1794	1949	1284	1043	6509	9720	16229
DEMAND	358	286	295	370	544	749	1031	1163	1004	842	552	355	2760	4789	7549
DEFICIENCY	-381	-332	-373	-564	-679	-1200	-993	-841	-790	-1107	-732	-688	-3749	-4931	-8680
% DEFICIENCY	-106.4%	-116.1%	126.4%	-152.4%	-124.8%	-160.2%	-96.3%	-72.3%	-78.7%	-131.5%	-132.6%	-193.8%	-135.8%	-103.0%	-115.0%

COMPANY: RIVER GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	146	132	135	182	309	458	617	720	659	518	329	261	1494	2972	4466
DEMAND	146	132	135	182	309	458	617	720	659	518	329	261	1494	2972	4466
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

COMPANY: WEST OHIO GAS

PROJECTED SUPPLY AND DEMAND (IN MMCF)

MONTH/YEAR	6/81	7/81	8/81	9/81	10/81	11/81	12/81	1/82	2/82	3/82	4/82	5/82	SUMMER	WINTER	YEAR
SUPPLY	531	430	547	573	1037	1396	1788	2341	2217	1597	1221	789	5128	9339	14467
DEMAND	531	430	547	573	1037	1396	1788	2341	2217	1597	1221	789	5128	9339	14467
DEFICIENCY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% DEFICIENCY	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%